



Engineered Systems, Equipment, Automation, & Parts Catalog

Agricultural, Industrial, &
Petroleum Equipment





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www.murrayequipment.com

Controls & Automation 4

ICS ControlPro® liquid and dry loadout controls, presets, and plumbing controls.

Loadout Skids 16

Loadout skid features and specifications along with a skid configurator.

Prefabrication 19

Hose arms, hose holders, repackaging systems, tote frames, and dike/catwalk stair configurator

Mix Plants 23

Mix plant features and specifications along with options and add-on components.

Premix Tanks 28

Premix tank system features, specifications, options and AMS add-on system.

Crop Protection & Handling Equipment 31

Turn-key configurable pump & meter stands, bulk system plumbing and pump & meter dispenser options.

System Components 36

Meters, pump assemblies and pumps, eductors, bulk tanks, minibulk tanks, valves, loading systems, and scales.

Accessories 89

Pipe, fittings, camlocks, hose, manifolds, strainers and filters, and safety equipment.

Charts & Diagrams 116

Pump diagrams, reference charts, and helpful formulas.



SINCE 1950, MURRAY EQUIPMENT, INC. (MEI) HAS BEEN A TRUSTED LEADER IN THE DESIGN, MANUFACTURING, AND DISTRIBUTION OF DRY AND LIQUID MATERIAL HANDLING EQUIPMENT.

Specializing in automation, fabrication, and innovative manufacturing solutions, MEI proudly serves industrial markets across North America. As a third-generation, family-owned business, we are committed to building lasting relationships and delivering exceptional value for years to come.

Our team of experts in fertilizer facility systems, software, and automation design is ready to help you optimize every segment of your operations. Visit MEI at www.MurrayEquipment.com and discover why we continue to set the standard in material handling solutions.



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Controls & Automation

Ready to take your retail, wholesale, or manufacturing facility to the next level? Integrated Control System's (ICS) modular designed controls allow you to automate your operations as you see fit. These innovative products are backed by the only company that offers after hours: (260) 470-2752.



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Liquid & Dry Fertilizer Facility Management Software



SOFTWARE HIGHLIGHTS



Liquid AND Dry Fertilizer

Manage all your agronomy facilities with the same software whether liquid or dry, retail or wholesale.



Batches & Loads

Split or combine batches as needed for in-field time savings and accurate delivery.



Inventory Management

Use transactions and/or sensors to manage inventory and monitor inventory across locations.



Unattended Loadout

Service customers and/or other locations with 24/7 loadout.



Subscription-Based Software

Stay competitive with the latest software innovations thanks to our PaaS model. Receive updates on the fly.



Agronomy/ERP Integration

Run ICS ControlPro® standalone or interface with 24 different 3rd party software.



Systems Control

Send ticket batches to one or more systems for production and loadout.



Drivers & Equipment

Improve communication and audit trails with drivers and equipment dispatching tools.



Billing & Customer Service

Increase billing and load accuracy while also improving communication with customers.



Weights and Measures Approved

The only industry software NTEP Certified with NTEP Devices. NTEP CC: 23-053

ICS 170C



16 Carriers // 16 Injected Chemicals // Retail



FEATURES & SPECIFICATIONS



Inputs

- 14 High Speed Meter Inputs
- 4 Ethernet Meters Inputs**



Loadout

- 2 Loadout Points per System
- 2 Systems May Run Simultaneously



Control Interfaces

Manual Controls are held within HMI Screen for Start Up and Testing



Outputs

- 16 Configurable Local Outputs
- Up to (2) 16 or 24 Ethernet Valve Panels**
- 4 Auxiliary Switches



Systems

- 2 Systems Maximum
- 16 Products Can Be Recirculated
- Ticket Recall and Printing*



Custom Options[†]

- Unattended Loadout Bays
- Desktop Software
- Start/Stop Panel

[†] Additional features will deem the panel as a custom build and billed as such.
^{*} ICS ControlPro® software required.
^{**} Ethernet connections require less conduit and install time.

(Actual product count depends on meter type & plumbing.)

ICS 180C



20 Carriers // 20 Injected Chemicals // 20 Premix Products // Retail and Manufacturing



FEATURES & SPECIFICATIONS



Inputs

- 4 High Speed Meter Inputs
- 2 Ethernet Meter Inputs
- 13 Standard Meter Inputs
- 2 Serial Scale Inputs
- 4 (4-20mA) Analog for Display



Outputs

- 46 Configurable Outputs
- 2 Dry Contact Outputs



Loadout

- 2 Loadout Points per System
- 8 Loadouts Points per Mix Plant



Systems

- 2 Systems and/or Mix Plants Max
- 1 Premix Skid Per System Max
- 20 Products Can Be Recirculated
- Systems May Run Simultaneously
- Ticket Recall and Printing*



Custom Options[†]

- Ethernet Valves



Premix Skid

- Load Out to 1-2 System Lines
- Single Product Batches
- Auto Flush Hard Coded

[†] Additional features will deem the panel as a custom build and billed as such.

* ICS ControlPro® software required.

(Actual product count depends on meter type & plumbing.)

ICS 240C



20 Carriers // 30 Injected Chemicals // 20 Premix Products // Retail



FEATURES & SPECIFICATIONS

ICS 240CF (Top)
ICS 240C-TSF (Right)



Inputs

- 29 High Speed Meter Inputs
- 4 Ethernet Meter Inputs
- 2 Serial Scale Inputs



Loadout

- 4 Loadout Points per System
- 4 Systems May Run Simultaneously



Custom Options[†]

- Unattended Loadout Bays
- Desktop Software
- Start/Stop Panel



Outputs

- 64 Configurable Outputs
- Up to (2) 16 or 24 Ethernet Valve Panels**
- 6 Auxiliary Switches



Systems

- 4 Systems Max
- 1 Premix Skid Per System Max
- 30 Products Can Be Recirculated
- Ticket Recall and Printing*



Premix Skid

- 2 Premix Skids Max
- Load Out to 1-2 System Lines
- Single Product Batches
- Auto Flush Hard Coded

[†] Additional features will deem the panel as a custom build and billed as such.

* ICS ControlPro® software required.

** Ethernet connections require less conduit and install time.

(Actual product count depends on meter type & plumbing.)

ICS 480



6 Systems // 100+ products (Expandable) // Retail and Manufacturing



FEATURES & SPECIFICATIONS

Inputs

- 30 High Speed Inputs
- 32 Ethernet Meters/Scales †
- 8 Analog Inputs
- 2 Serial Scale Inputs

Outputs

- Up to 384 Ethernet Valves**
- 48 Standard Outputs
- 16 High Current Outputs

Loadout

- 6 Loadout Points per System

Expansion Options

- 64/96 Output Expansion Panel
- Unattended Loadout
- Tank Level Monitoring
- Start/Stop Panel

Systems

- 6 Systems Max
- Systems May Run Simultaneously
- 32 Products Can Be Recirculated
- Variable Pump Speed Control
- Ticket Recall and Printing*

Control Interfaces

- Touch Screen Manual Controls
- Optional Remote Touch Screen
- Optional Tablet/Smart Device for Manual Controls

Premix Skid

- 1 Premix Skid Per System Max
- 3 Total Premix Skids
- Load Out to 1-2 System Lines

* ICS ControlPro® required.

** On supported equipment

† Ethernet connections require less conduit and install time.

(Actual product count depends on meter type & plumbing.)

ICS 24-7



Unattended Loadout // 20 Carriers // 20 Micronutrients // Retail



FEATURES & SPECIFICATIONS

Inputs

- 14 Fast Meter Inputs
- 4 Ethernet Meters**



Loadout

- 2 Loadout Points per System
- 2 Systems May Run Simultaneously



Control Interfaces

- Touch Screen Manual Controls
- Integrated with ICS ControlPro® Software**

Outputs

- 16 Configurable Local Outputs
- Up to (2) 16 or 24 Ethernet Valve Panels**
- 4 Auxiliary Switches



Systems

- 2 Systems Maximum
- 16 Products Can Be Recirculated
- Ticket Recall and Printing*



Custom Options[†]

- Desktop Software
- Start/Stop Panel

* Start/Stop Panel required per system.

** Yearly subscription required.

(Actual product count depends on meter type & plumbing.)

ICS CONTROLS OPTIONS

MEI offers a variety of controls to help you automate your liquid loadout. Controls are built in **our own UL 508A facility** from readily available components that can be found at your local electrical supply house.

Unattended Loadout Options

24-7 Gate/Door Opener



PART NUMBER	DESCRIPTION
ICS 24-7GATE2	Second Gate/Door opener panel

24-7 Start/Stop Panel



PART NUMBER	DESCRIPTION
ICS 24-7-START	Start/Stop Panel (One needed per bay)

24-7 Printer in Enclosure



PART NUMBER	DESCRIPTION
ICS 247PRN-ENC	NEMA 4 Printer Enclosure.

Remote Touch Screen Options

Remote Touchscreen for ICS 240C and ICS 480



PART NUMBER	DESCRIPTION
ICS 240C-REMTS	15" Widescreen touch screen for remote 240C and ICS 480 control.

Chemical Injection

Premix Expansion Panel



PART NUMBER	DESCRIPTION
ICS ELC5568A	A premix control panel with display.



Motor Starter Panels

NEMA 4X Enclosure // 1 or 3 Phase // 208/240/480 Volts



POWERFUL IN-PROCESS CONTROL

The Murray Motor Starter Panels are designed to provide in-process control and protection for both dry and liquid systems.

The starter panels offer two enclosure options. This flexibility allows for installation in a variety of environments, depending on durability and corrosion resistance requirements.

The panels are constructed in our in-house, climate-controlled UL 508A facility.



Enclosure

- NEMA 4X
- Stainless Steel or Painted Mild Steel



Supported Motor Configurations

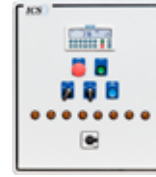
- Single-Phase: 240 volts
- Three-Phase: 208/240/480 volts

LIQUID LOADOUT PRESETS

MEI offers a variety of controls to help you automate your liquid loadout. Controls are built in our own UL 508A facility from readily available components that can be found at your local electrical supply house.

ICS Product Presets

Want to automate the loadout of a single or multiple products? These entry-level, stand-alone control panels automate up to 8 pumps, 9 valves, and 8 meters ensuring precision and accuracy. Preset the desired output amount and loadout the products with ease.



	ICS PRESET-1	ICS PRESET-2	ICS PRESET-8
RAW MATERIALS			
Configurable Raw Materials	1	2	8
Available Outputs (Valves & Pumps)	1 Pump & 1 Loadout Valve	2 Pumps, 2 Valves, 1 Loadout Valve	8 Pumps, 8 Valves, 1 Loadout Valve
Meter Inputs Included	1	1	8
PLUMBING CONFIGURATIONS			
No of Loadout Points	1	1	1
Pump On/Off	Yes	Yes	Yes
Valve On/Off	Yes	Yes	Yes
Air Purge	Yes	Yes	Yes
NTEP-Approved Control Interface	Yes	Yes	Yes
SOFTWARE			
User Interface	Keypad	Keypad	Keypad
User-Defined Parameters	Pump Delay, Air Purge, Overrun Compensation, K-Factor	Pump Delay, Air Purge, Overrun Compensation, K-Factor	Pump Delay, Air Purge, Overrun Compensation, K-Factor
Delivery Tickets	Serial Printer Compatible	Serial Printer Compatible	Serial Printer Compatible
Configurable Names	No	No	No
ICS ControlPro Compatible	No	No	No
SECURITY			
Meter Signal Timeout	Yes	Yes	Yes
Remote Support	No	No	No
Configuration Lockout Switch	Yes	Yes	Yes

CONTROLS & AUTOMATION

After Hours Support

(260) 470-2752

MEI is dedicated to meeting customer needs around the clock.

With our after hours phone number and online training videos and documentation, you can be sure you have the support you need on demand.



 MurrayEquipment.com/Support.html

PLUMBING CONTROLS

MEI offers modular controls to help you manage your liquid manufacturing.

Tank Level Controls

ICS Tank Sensor & Remote Display

Keep an eye on your liquid inventory levels. This display panel provides graphical illustration of liquid levels of up to 12 tanks remotely.



ICS LEVELPRO Shown

PART NUMBER	DESCRIPTION
ICS 12TANK	<ul style="list-style-type: none"> Monitor up to 12 tanks Connects to all 4-20MA sensors Static IP address needed for remote access Multiple panels can be integrated with ease
ICS LEVELPRO	8 Tank Level with Dry Contacts for Overfill Protection
ICS LEVELPRO+	8 Tank Level with Dry Contacts for Overfill Protection Remote Monitoring (Local Networking Permissions Required)

ICS High Level Alarms

Ensure you do not overfill your product tanks. These NEMA 4X indoor/outdoor UL-listed high level alarms provide an audible alarm and strobe signal, as well as disconnect pump power.



PART NUMBER	DESCRIPTION
ICS 3364A	High level float control panel
ICS 3383A	Double high-level float control panel
ICS 3633A	Single float panel

Air Valve Actuation Control Panels

Festo Ethernet IP Box

These control valve boxes use an Ethernet connection to give you the ability to automatically open and close valves to move product from one place to another. They can be used with other MEI controls or integrated with 3rd party products.



PART NUMBER	DESCRIPTION
ICS 16VAL/ENET	Control up to 16 air valves. Requires 24 VDC + Ethernet to operate.
ICS 24VAL/ENET	Control up to 24 air valves. Requires 24 VDC + Ethernet to operate.

Festo Control Valve Box

These valve control boxes give you the ability to automatically open and close valves to move product from one place to another. They can be used with other MEI controls or integrated with 3rd Party products.



PART NUMBER	DESCRIPTION
ICS VBXFESTO4	Control up to 4 air valves. Requires 120 VAC to operate.
ICS VBXFESTO6	Control up to 6 air valves. Requires 120 VAC to operate.
ICS VBXFESTO8	Control up to 8 air valves. Requires 120 VAC to operate.
ICS VBXFESTO10	Control up to 10 air valves. Requires 120 VAC to operate.
ICS VBXFESTO12	Control up to 12 air valves. Requires 120 VAC to operate.
ICS VBXFESTO16	Control up to 16 air valves. Requires 120 VAC to operate.

DRY FERTILIZER AUTOMATION

Need to automate dry fertilizer, chemical, or feed production? MEI has the tools you need.

Batch Controls

ICS Dry Horizontal Blending System



PART NUMBER	DESCRIPTION
ICS 2873M-1A	Control up to 8 bins, 2 chemical tanks, and 1 blender. Weighed by impregnation only.
ICS 2873M-2A	Control up to overhead tanks, 10 bins, 4 chemical tanks, and 1 blender.
ICS 2873M-3A	Control up to overhead tanks, 13 bins, 4 chemical tanks, powder feeders, and 2 blenders.

Declining Weight Controls

ICS Dry Declining Weight System



PART NUMBER	DESCRIPTION
ICS 2875M-1A	Control up to 10 bins and 2 chemical tanks.
ICS 2875M-2A	Control up to 15 bins and 2 chemical tanks.

Dry Fertilizer Receiving Controls

ICS Receiving Controls



PART NUMBER	DESCRIPTION
ICS ELC5066A	Dry laser receiving control panel. Automatically move Tripper to preset location.
ICS ELC-ALLEY	Dry alleyway and reclaim control panel
ICS ELC-TOWER	Dry tower panel



Loadout Skids

Quickly automate the blending and loadout of liquid fertilizers and micronutrients. Dramatically save on production and installation costs with these proven, configurable loadout skids.



IN THIS SECTION ▶

Skid Specifications/Overview	17
Custom Skid Configurator	18

Loadout Skids

100-400 GPM // 4-10 Suction Inlets // Up to 6 Injection Inlets



LOWER ENGINEERING & INSTALLATION COSTS

Automate the blending & loadout of up to 10 fertilizers or micronutrients quickly and easily. This compact pump and meter skid includes a control panel along with a pre-configured pump, meter, and valve system. The integrated ICS series control panel is field-tested and operator-approved for usability. It interfaces with ICS ControlPro® software giving you the ability to continually take advantage of the latest in automation technology.



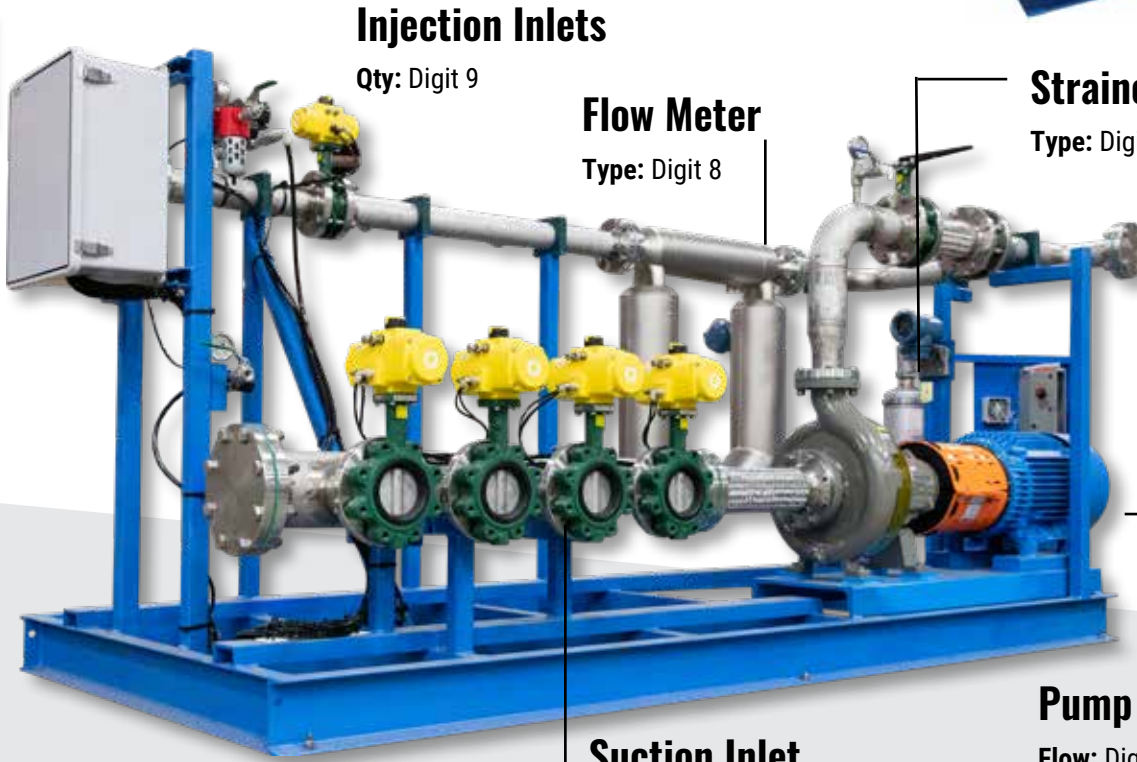
- Control up to 10 fertilizers, nutritionals, or micronutrients
- Stainless steel or all ferrous pump
- Weights-and-Measures NTEP approved flow meter
- Multiple loading point options with auto and manual operation
- Up to 6 injection manifolds
- Filtered loadout line
- Preset loadout valves
- Sequential product delivery
- Automatic overrun compensation
- Timed air purge
- Load transaction ticket printing

CUSTOM LOADOUT SKID CONFIGURATOR



Left orientation shown

LOADOUT SKIDS



Injection Inlets

Qty: Digit 9

Flow Meter

Type: Digit 8

Strainer

Type: Digit 10

Pump Orientation

Left or Right Side: Digit 5
(Left shown)

Pump

Flow: Digits 1-2
Material: Digit 3
Mfg: Digit 4

Suction Inlet

Size: Digit 6
Qty: Digit 7

Pump

Flow: Digits 1 & 2	
10	100 GPM
15	150 GPM
20	200 GPM
25	250 GPM
35	350 GPM
40	400 GPM

Pump Orientation

Side: Digit 5	
L	Left
R	Right

Meter

Type: Digit 8	
1	Mass Meter
2	Mag Meter

Injection Inlet(s)

Quantity: Digit 9	
0	0 Inlets
4	4 Inlets
6	6 Inlets

Suction Inlet

Size: Digit 6	
2	2in
3	3in
4	4in

Strainer

Type: Digit 10	
M	High Capacity Strainer
T	Thompson Strainer

Part number reference chart

Material: Digit 3	
A	All Ferrous
S	Stainless Steel

Mfg: Digit 4	
D	Durco
L	Labour
M	MP Pumps

Quantity: Digit 7	
4	4 Inlets
5	5 Inlets
8	8 Inlets

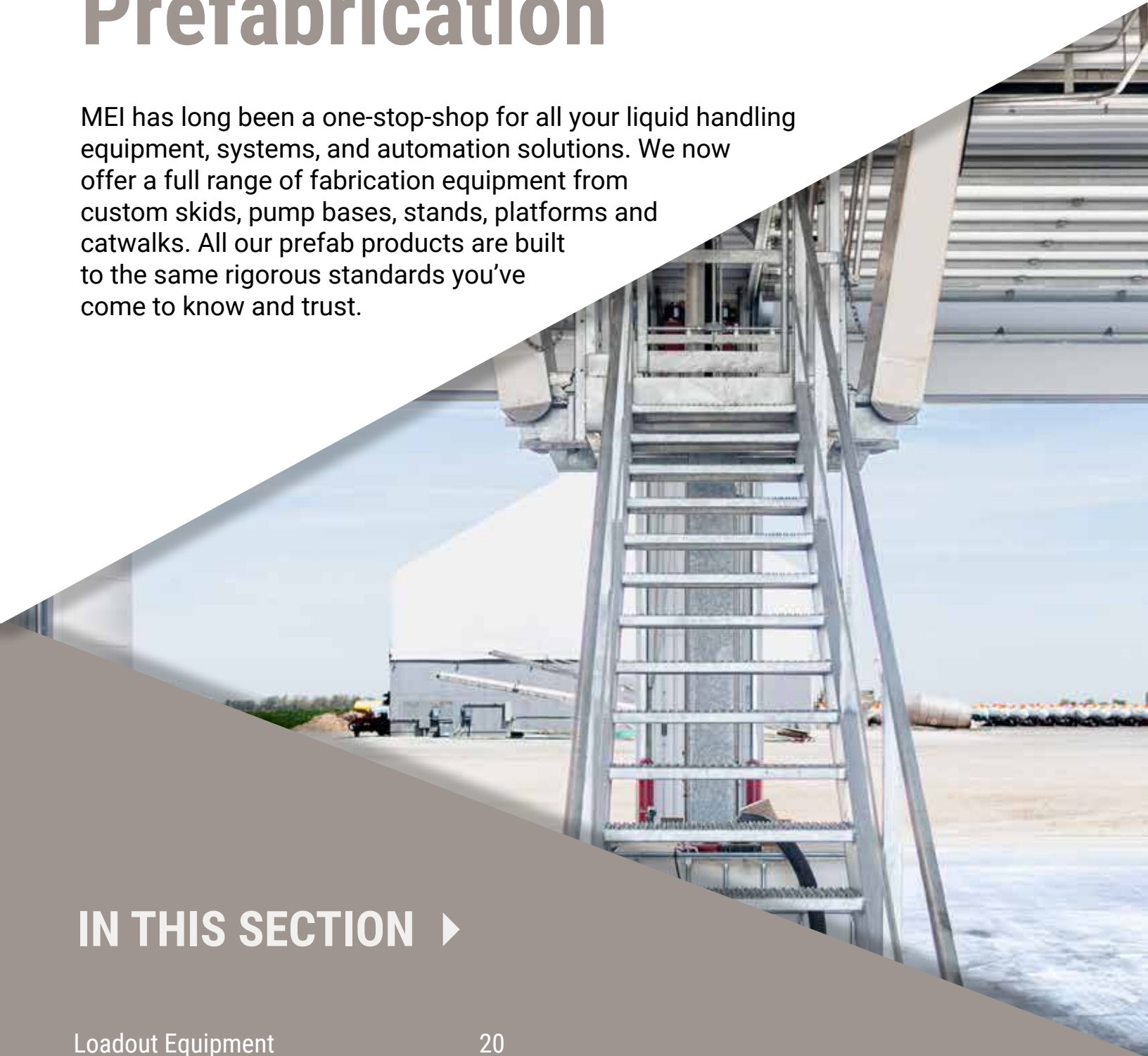
	1-2	3	4	5	6	7	8	9	10
LOS									

Prefabrication

MEI has long been a one-stop-shop for all your liquid handling equipment, systems, and automation solutions. We now offer a full range of fabrication equipment from custom skids, pump bases, stands, platforms and catwalks. All our prefab products are built to the same rigorous standards you've come to know and trust.

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Spill Prevention Equipment	20
Custom Skid Configurator	21
OSHA vs. IBC Comparison	22



PREFABRICATION EQUIPMENT

PREFABRICATION SYSTEMS



Pivoting Hose Arms

PART NUMBER	DESCRIPTION
ASY PHA00023	Pivoting the hose arm to assist in filling totes in the repack system.



Tote Frame

PART NUMBER	DESCRIPTION
FRM 00002	4 tote frame for repacking totes



Bottom Loadout Hose Holder

PART NUMBER	DESCRIPTION
ASY HOS00033	Bottom load hose holder to assist in the loadout bay chemical refilling.



Repack System

PART NUMBER	DESCRIPTION
ASY RPB00251	6 product bucket repack frame
ASY RPB00252	8 product bucket repack frame

SPILL PREVENTION SOLUTIONS



Drip Pan

PART NUMBER	DESCRIPTION
ASY DRP00309	Stainless Steel drip tray for 3" Butterfly valve
ASY DRP00311	Stainless Steel drip tray for 4" Butterfly valve



Valve Carrying Handles

PART NUMBER	DESCRIPTION
ASY HDL00202	2" Banjo valve carry handle
ASY HDL00203	3" Banjo valve carry handle

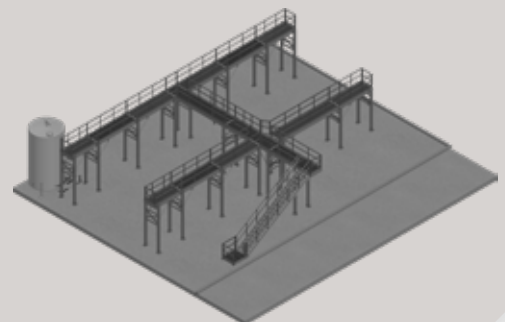


Bucket

PART NUMBER	DESCRIPTION
MEI BUCKET	5 gallon poly bucket for repack system & other applications

CATWALKS

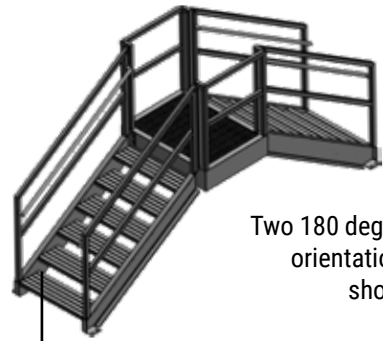
The Murray Equipment Catwalks can be fabricated to fully meet your customized facility needs. Based on either OSHA or IBC standards, we design and build our catwalks an 80" walking leg clearance underneath, 42" handrails, and a standard 41" platform. The stairs, ladders, gates, platforms, handrails, and legs are all hot dipped galvanized and fabricated in-house at Vulcan Manufacturing, a subsidiary of Murray Equipment.



DIKE/CATWALK STAIR CONFIGURATOR

System Type

Digits 4-6:
Catwalk or Dike



Two 180 degree orientations shown

Orientation

Digit 7:
Perpendicular or parallel to dike or catwalk system.

Regulation Standard

Digits 1-3:
OSHA vs IBC (See next page)

Height of Stairs

Digits 8-10:
Multiply step/riser height by number of steps. 8' or 96" would be 096

PREFABRICATION

Regulation Standard

Digits 1-3	
OSH	OSHA Regulations
IBC	IBC Regulations

Orientation

Digit 7	
9	90 Degree/Perpendicular
8	180 Degree/Parallel

Part number reference chart

System Type

Digit 4-6	
CAT	Catwalk Stairway
DIK	Dike Stairway

Height of Stairs

Digit 8-10	
000-999	Inches (use all 3 digits. e.g. 096 is 96in)

	1-3	4-6	7	8-10
STR				

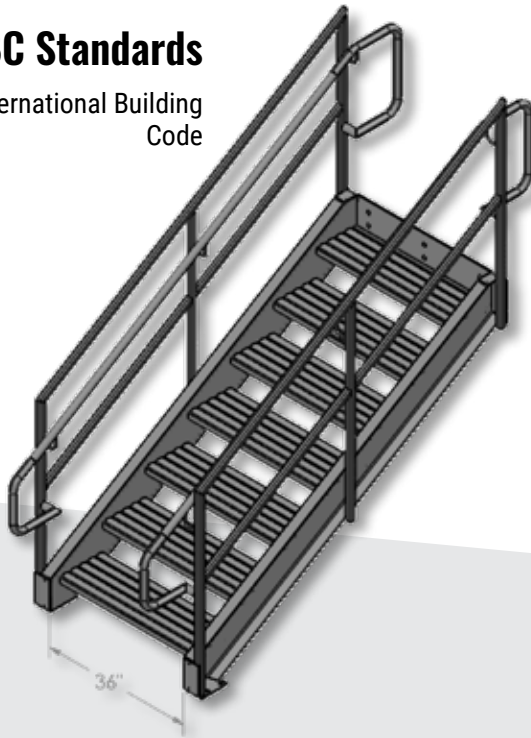
INSTRUCTIONS

In this part number configurator, you can create a part number to reference when requesting a dike or catwalk system quote. In digit 8-10, you set the height you need for the stair based on inches. The height and the regulations you decide on contribute to the length of the stair. You are limited to three digits. If the height is only two digits, please place a zero before the number. Example 96 inches would be 096. To place your quote either at our phone number (800) 348-4753 or email Sales@Murrayequipment.com.

DIKE/CATWALK STAIR OSHA VS. IBC COMPARISON

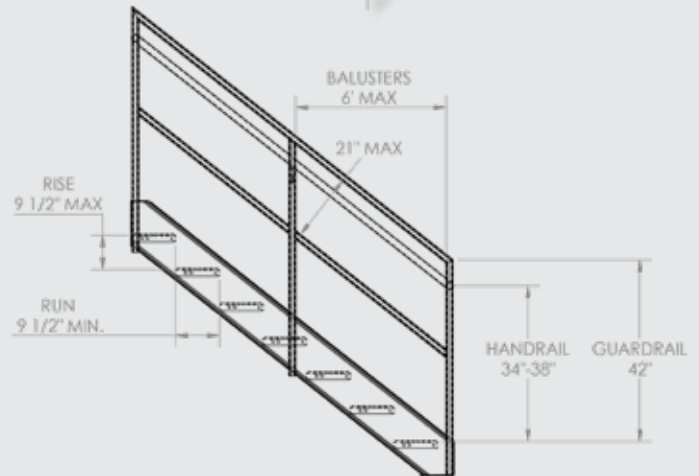
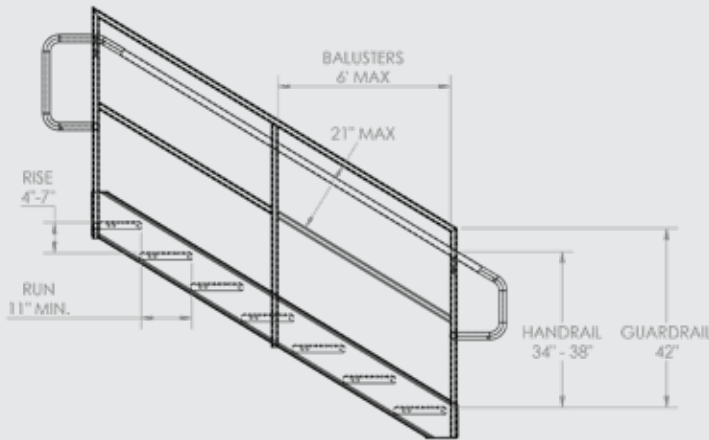
IBC Standards

International Building Code



OSHA Standards

Occupational Safety and Health Administration



PREFABRICATION

	IBC: International Building Code	OSHA: Occupational Safety and Health Administration
Risers	4"-7" high solid risers in most cases	9.5" max height open risers allowed
Tread/Run	11" tread depth	9.5" tread depth
Stair	44" wide stair or 36" wide (under 50 people)	22" min width
Handrail	34"-38" high	34"-38" high
Guardrail	42" high	42" high
Balusters	6' max gap	6' max gap
Landings	Stair width and at least 48" deep landing top, bottom, and every 12'	Stair width and at least 30" in depth

Mix Plants

Need a way to manufacture liquid fertilizer from solids, liquids, gases, chemistry, or liquid feed? Look no further than Murray Equipment. Dramatically improve production rates and product quality.

IN THIS SECTION ►

Features/Specifications	24
Plumbing/Manifold Options	25
Mix Plant Types	25
Frame & Tank Options	26
Add-On Components	26
Railcar Unloading	27



Mix Plants



10-25 Ton 2,500-6,000 // 400-900 GPM // NTEP-Approved Point of Resale Device



FEATURES & SPECIFICATIONS



Tank

- 7-Gauge or 10-Gauge Tank
- 304 or 316 Stainless Steel Tank
- Full Lid with Manway
- Baffles for Increased Agitation/
Less Pump Cavitation/Pump
Seal Failure
- Perforated Self-Draining Sump
Screen
- Sample Port



Agitation

- All 316 Stainless Steel Wetted
Materials
- Lightnin Low Speed Agitator
Designed Specifically for Tank



Pump

- ANSI process pump
- 6x4 and 4x3 Configurations
- 400-900 GPM
- 25HP to 60HP



Plumbing

- ANSI Spec Components
- Suction and Discharge Stainless
Steel Manifolds
- Anhydrous Aqua Injection



Frame

- Mild Steel 304 and 316 Frames



Controls

- Manual or Automated Controls
- Motor Control Panels (Built to Suit)
- NEMA Electrical 4x Enclosures
Assembled to UL 508A Standards
- NTEP Approved



Scale

- Mettler Toledo Multi Mount or Pin
Mount Load Cells
- Rice Lake 680 Indicator
- All NTEP-Approved Components

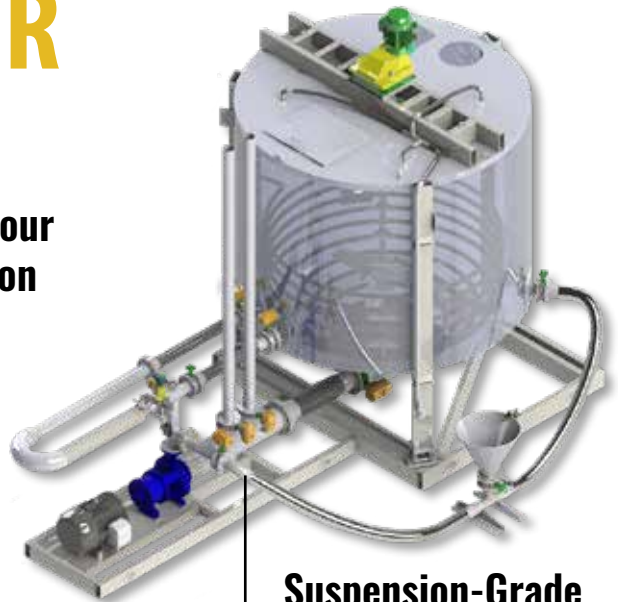
DESIGNED TO YOUR REQUIREMENTS

MEI Fertilizer Systems can be engineered to your individual liquid applications. Here are common configurations.



Acid-Grade

Nitric, Citric, Phosphoric, KOH, etc.
316L SS Tank and Wetted Components
Cooling Coils
Eductor with SS Funnel

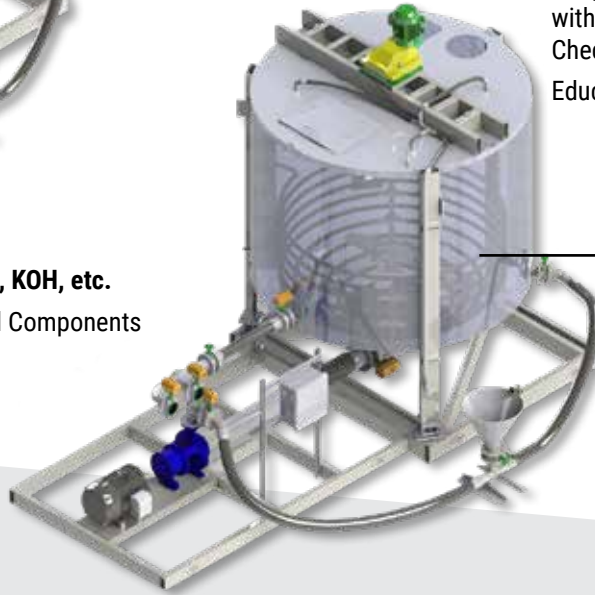


Suspension-Grade

8-24-0, 9-27-0, etc.

Cooling Coils

Anhydrous Ammonia Injection Loop with Air Dampening, Water Flush, Check Valve, and Rinse Eductor with SS Funnel



Clear-Grade

Potash, Urea, etc.

Heating Coils

Eductor with SS Funnel



Suction Manifold Shown

Plumbing & Manifolds

Efficiently create batches according to your formulas. MEI Mix plants are designed to match your liquid requirements, capacity needs, and speed demands.

Materials

304 Stainless Steel
316L Stainless Steel

Products

4 Products
6 Products
8 Products

Pump

20-40 HP
400-900 GPM
Based on Plumbing

MIX PLANTS

Add-On Components

MEI Fertilizer Systems are compatible with standard manufacturing components. Additionally, they can be engineered to incorporate other industry systems.

MIX PLANTS



Hopper

Dry Materials
5, 8, 10 Ton
Air Operated Slide Gate
Optional Declining Weight



Dump Tank

Increase Production
10,15, or 25 Tons
3,000-7,000 Gallons
304 or 316L SS Tank
304 SS Tank Frame
24"x30" Manway
Optional Rinse Nozzles
Optional Level Sensors



Conveyor Systems

Dry Materials
SS Auger
Belt Conveyor
Enclosed SS Drag Chain
Height is Dependent on Mix Plant Height



(See page 66 for part numbers)

Eductors

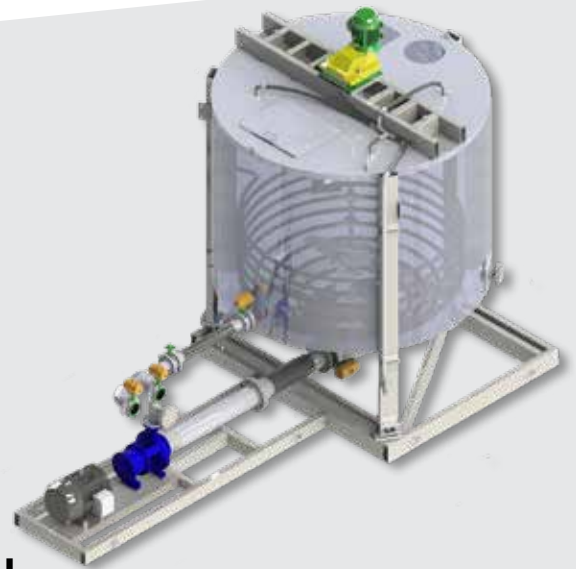
Dry and Liquid Hand-Adds
3" or 4" Assembly
15 Gallon
304 SS Funnel
Suction Hose with Hose Barb



(See page 63 for part numbers)

Digital Temp Gauge

Monitor Temperature Remotely
316L SS Digital Temperature Gauge



Frame & Tank

Customize the mix plant tank and frame to accommodate your facility, climate, liquid requirements.

Tank Material

304 Stainless Steel
316L Stainless Steel

Tank Thickness

7 Gauge
10 Gauge

Capacity

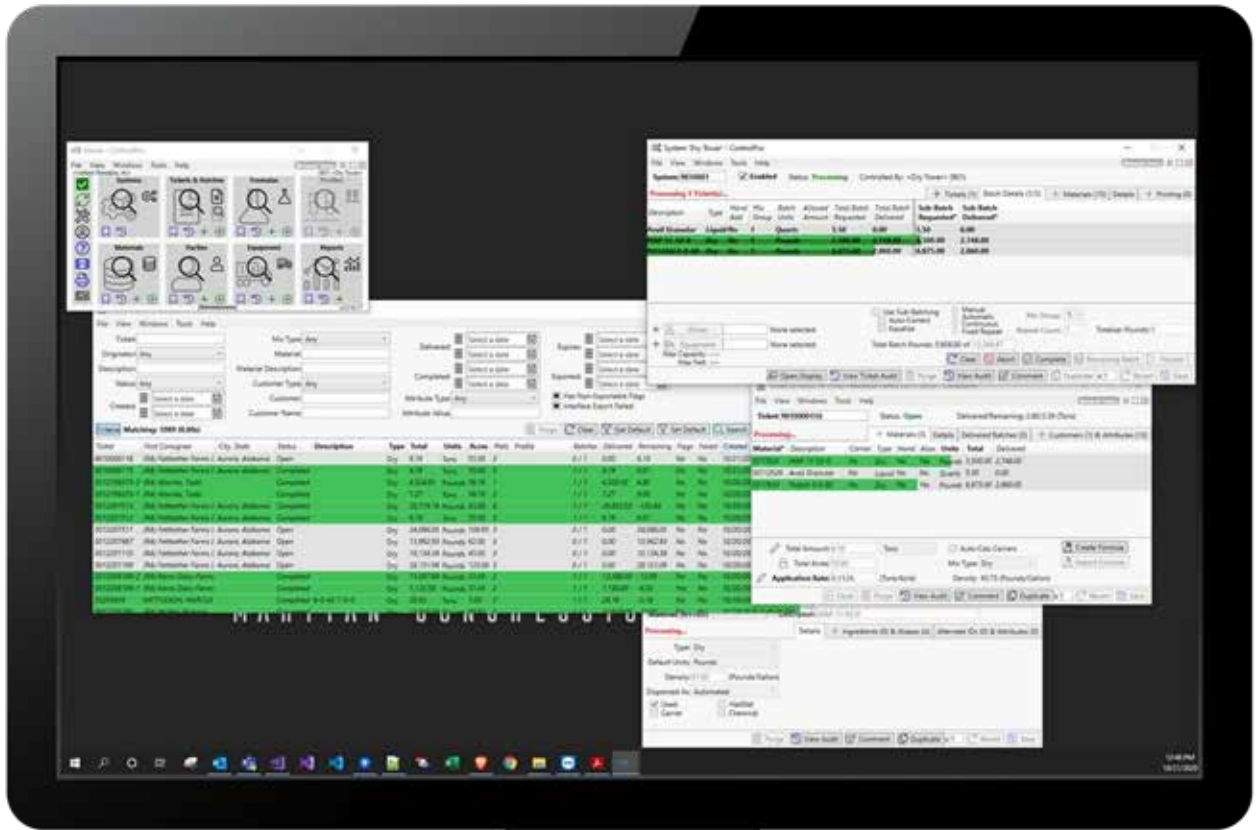
10 Ton/2,500 Gallons
15 Ton/3,500 Gallons
25 Ton/6,000 Gallons

Frame Material

Painted Carbon Steel
304 Stainless Steel



Dramatically improve manufacturing speed, accuracy, and efficiency with MEI's plant software.



MIX PLANTS

ICS ControlPro®
Learn more on page 5.

Railcar Unloading

Quickly and efficiently offload railcars. Engage with MEI's In-House Engineering team to optimize your facility's layout and liquid handling capabilities. Call today!



Premix Tanks

Need to premix crop chemicals or nutritional products? MEI offers customized premix and eductor systems that allow you to add product to blends.



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Premix Tank Systems

100-250 Gal // NTEP-Approved Scale // Skid-Mounted



FEATURES & SPECIFICATIONS

Need to mix small quantities of additives, dry solubles, and/or micro nutrients?

MEI offers customized premix systems that allow you to add product to final mixes.



Tank

- 100-250 Gal
- 304 Stainless Steel Tank
- Removable Half Lid
- 2" Outlet
- 2 - 1-1/2" Recirculation Couplers
- 3 Bolted Down Legs
- Vortex Breaker
- 14 Fill Ports



Pump & Plumbing

- 2 x 1 1/2" Stainless Steel Pump
- 3 Phase 2.5 HP High Flow Pump
- Recirculating Plumbing



Scale

- 4' x 4' Pre-Calibrated Floor Scale
- Rice Lake 680 Indicator

PREMIX TANK SYSTEMS

STANDARD PREMIX SYSTEMS

Mix up to 250 gallons of additives, dry solubles, and/or micronutrients. MEI premix units can be run for manual mixing, or incorporated into a larger automated systems for full automated mixing.



PART NUMBER	DESCRIPTION	TANK DIMENSIONS	TOTAL DIMENSIONS
MIX PRESKID100	100 Gallons	42" d x 39" h	48" w x 48" l x 43" h
MIX PRESKID150	150 Gallons	42" d x 44" h	48" w x 48" l x 48" h
MIX PRESKID200	200 Gallons	48" d x 46" h	48" w x 48" l x 50" h
MIX PRESKID250	250 Gallons	48" d x 52" h	48" w x 48" l x 56" h

PREMIX OPTIONS

MEI offers a series of options to configure your premix system to your needs.

- 316 Stainless Steel Tank
- No Lid but with Rinse Ring
- Jug Rinse
- 4 Legs Instead of 3 Legs
- Single Phase Pump (instead of 3 Phase)
- Cast Iron Pump
- Additional Couplers
- Scale Printer

AMS SYSTEM

Working in tangent with the Premix Tank, the AMS system dispenses up to 2 supersacs of powdered AMS in the tank, (as required), with its stainless steel auger, transportable 43" x 43" fill hopper and pneumatic slide gate.

- Forklift Removable hopper
- 304 Stainless Steel Construction
- **Hopper Dimensions:** 46"L x 43" W x 58" h
- **Total Dimensions:** 54"L x 103" W x 123 3/4" h



PART NUMBER	DESCRIPTION
ASY AMS00177	43"x 43" AMS System

Crop Protection Handling Equipment

MEI offers cost-effective, turn-key chemical storage and dispensing systems to crop protection liquid users and retailers. These systems can be custom fit to your specific chemical and application needs. For complete custom solutions, consult our in-house engineering team at (260) 484-0382.

IN THIS SECTION ▶

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Bulk System Pump & Meter Dispensers	35

Pump & Meter Stands

2-4 Units // NTEP-Approved Meter // 50 GPM



TURN-KEY INJECTION AND/OR DISPENSING SYSTEMS

Want to resell or dispense multiple plant food or crop protection products? Or, need to inject multiple liquids into your dry fertilizer blends?

MEI's turn-key multi-product pump and meter stand gives you the accuracy, precision, and speed you need to deliver and/or inject liquids. All meters are NTEP-approved for resale.



System

Inject or Dispense up to 4 Liquids per Stand

Up to 50 GPM

Weights and Measures Approved Flow Meter

Painted Mild Steel Frame



Plumbing

2" Slip Weld Input & Output Connections

Manual Check Valves

Filtered Loadout Line (Y Strainers)



Meter

NTEP-Approved

All Ferrous (Iron) or 316 Stainless Steel Construction

A Five-Wheel Re-settable Register with Totalizer

Electronic Pulser for Digital Output 50 GPM



Pump

Self-Priming Centrifugal Pump

All Ferrous (Iron) or 316 Stainless Steel Construction

CUSTOM PUMP & METER STAND CONFIGURATOR



CHM 44SSXX

4 Total Units
4 Stainless Steel
0 All Ferrous

CHM 42SS2AFX

4 Total Units
2 Stainless Steel
2 All Ferrous

Pump & Meter Units

No of Units: Digit 1	
2	2 Units
3	3 Units
4	4 Units

Meter Types

316 Stainless Steel: Digits 2-5	
1SS	1 SS Meter
2SS	2 SS Meters
3SS	3 SS Meters
4SS	4 SS Meters
X	No SS Meters

Part number
reference
chart

All Ferrous (Iron): Digits 6-8	
1AF	1 Iron Meter
2AF	2 Iron Meters
3AF	3 Iron Meters
4AF	4 Iron Meters
X	No Iron Meters



CHM 22SSXX

2 Total Units
2 Stainless Steel
0 All Ferrous

CROP PROTECTION
HANDLING EQUIPMENT

	1	2-5	6-8	
CHM				X

BULK SYSTEMS

Configurable bulk storage and dispensing systems designed for dealers and/or supplier programs.

BULK CHEMICAL SYSTEMS PLUMBING PACKAGE



Bulk Systems Plumbing Package

PART NUMBER	DESCRIPTION
CHM SS-SYS-1	Bulk System plumbing package includes a conservation vent with vent baffle, stainless steel locking ball valves, bottom fill adapter to simplify tank filling and all cross linked polyethylene 2" suction recirculation hose. Also included is a 1" x 12" ft hose and nozzle valve.

CROP PROTECTION
HANDLING EQUIPMENT



Bulk Tanks

Check out our selection of stainless steel cone bottom tanks on page 64.

BULK SYSTEMS (CONT.)

Configurable bulk storage and dispensing systems designed for dealers and/or supplier programs.

FLOMAX® & METER DISPENSER

The dispensing system consists of a FLOMAX® 8 2" x 2" self priming centrifugal pump with a 5HP, 1 or 3 phase, 3600 TEFC electric motor, mounted on a tubular steel stand with a NTEP certified, legal for custody 682 Total Control Systems iron meter, a five-wheel re-settable register with totalizer and a 3/4 stainless steel air eliminator is mounted onto the top of the stand. This system has sufficient valves and fittings to direct product either through the meter to loadout or back to tank for recirculation.



PART NUMBER	DESCRIPTION
CHM 682/51AE-2	FLOMAX® 8 2" x 2" self priming centrifugal pump, 1 Phase
CHM 682/53AE-2	FLOMAX® 8 2" x 2" self priming centrifugal pump, 3 Phase
CHM 682/D51AE2	FLOMAX® 8 Double Seal 2" x 2" self priming centrifugal pump, 1 Phase
CHM 682/D53AE2	FLOMAX® 8 Double Seal 2" x 2" self priming centrifugal pump, 3 Phase

CHEMFLO® & METER DISPENSER

The dispensing system consists of a CHEMFLO® 2" x 1½" centrifugal PTFE or FKM seal pump with a 5HP, 1 or 3 phase, 3600 TEFC electric motor, mounted on a tubular steel stand with a NTEP Certified, legal for custody 682 Total Control Systems 304 stainless steel meter, A five-wheel re-settable register with totalizer and a 3/4 stainless steel air eliminator is mounted onto the top of the stand, This system has sufficient valves and fittings to direct product either through the meter to loadout or back to tank for recirculation.



PART NUMBER	DESCRIPTION
CHM 682CF51SSM	CHEMFLO® 2 x 1½" PTFE seal, 1 Phase
CHM 682CF53SSM	CHEMFLO® 2 x 1½" PTFE seal, 3 Phase
CHM 682CF51SVM	CHEMFLO® 2 x 1½" FKM seal, 1 Phase
CHM 682CF53SVM	CHEMFLO® 2 x 1½" FKM seal, 3 Phase

NITRIFICATION INHIBITOR



PART NUMBER	DESCRIPTION
MEI NIP-1.1	NTEP and Canada Weights and Measures approved Nitrification Inhibitor pump is specially designed to transfer liquid nitrification inhibitors from bulk tanks, totes, or drums to application equipment. Each pump stand includes on-board controls. The unit operates on 115 VAC power. 1½" diameter suction and 1" discharge hoses and fittings are included.

System Components

All of our systems are customizable to your exact needs and liquid handling requirements. That's why we offer an expansive inventory to meet your new and replacement system requirements.

IN THIS SECTION ▶

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CUSTODY TRANSFER METERS

TCS 682 POSITIVE DISPLACEMENT PISTON METERS

The robust TCS 682 meter is built to last and withstand harsh environments. Complete with a 10 year manufacturer's warranty, these meters offer low pressure drop and high accuracy and repeatability across a wide flow range (0.2-50 GPM). This means that even in low flow rate systems, you can be certain you are measuring accurately.

Cast Iron

Engineered for compatible fertilizers, ag chemicals, micronutrients, and liquid feed.



Register includes choice of units: liters, gallons, quarts, etc.

PART NUMBER	SIZE	FLOW RATE	REGISTER	PULSER
682 15AF2AT	1.5" NPT Flanged	0.2-50 GPM	Mechanical	
682 15AF2AT2	1.5" NPT Flanged	0.2-50 GPM	Mechanical	10:1
682 15AF2BX	1.5" NPT Flanged	0.2-50 GPM	No Register	
682 15AF2AT6	1.5" NPT Flanged	0.2-50 GPM	Mechanical	100:1 TCS DMP Pulser 24 VDC

Stainless Steel

Engineered for acidic/low pH liquids including some feeds.



Register includes choice of units: liters, gallons, quarts, etc.

PART NUMBER	SIZE	FLOW RATE	REGISTER	PULSER	MATERIAL
682 15SS2AT	1.5" NPT Flanged	0.2-50 GPM	Mechanical		316
682 15SS2AT2	1.5" NPT Flanged	0.2-50 GPM	Mechanical	10:1	316
682 15SS2AT6	1.5" NPT Flanged	0.2-50 GPM	Mechanical	100:1 TCS DMP Pulser 24 VDC	316
682 15SS2BX	1.5" NPT Flanged	0.2-50 GPM	No Register		316
682 15SS2BXM	1.5" NPT Flanged	0.2-50 GPM	No Register		304
682 15SS2AT6M	1.5" NPT Flanged	0.2-50 GPM	Mechanical	100:1 TCS DMP Pulser 24 VDC	304

SYSTEM COMPONENTS - METERS & METER PARTS

ABOUT TOTAL CONTROL SYSTEMS (TCS)

Total Control Systems (TCS) is the standard in the meter industry for quality, innovation, and customer service. All meters are machined and manufactured at our headquarters in Fort Wayne, IN.

TCS meters are certified Made in USA.



The Standard of Measurement

 TCSMeters.com

CUSTODY TRANSFER METERS (CONT.)

ELECTROMAGNETIC

Electromagnetic Meter

These NTEP-approved highly accurate meters with wide flow ranges can meter products with up to 50% solids, or any liquid that has a defined minimum electrical conductivity of 6 micro siemens.

PART NUMBER	METER	SIZE	FLOW METER	APPLICATIONS
EHM 5P300CT-2	PTFE-Lined Electromagnetic Meter	2" ANSI Flanged	32-500 GPM	Conductive liquids such as water, plant food, and micronutrients
EHM 5P300CT-3	PTFE-Lined Electromagnetic Meter	3" ANSI Flanged	65-650 GPM	Conductive liquids such as water, plant food, and micronutrients
EHM 5P300CT-4	PTFE-Lined Electromagnetic Meter	4" ANSI Flanged	130-1300 GPM	Conductive liquids such as water, plant food, and micronutrients

CORIOLIS MASS FLOW

316 Stainless Steel Micro Motion® Meter & 5700 Transmitter

The NTEP-approved Micro Motion® coriolis meter offer a wide flow range with exceptional accuracy, repeatability, and no moving parts to wear even in harsh process environments. The sensors measure mass and volume flow rate, density, and temperature all from the same device. (Check State Requirements)

PART NUMBER	METER	SIZE	FLOW METER	APPLICATIONS
MMI CMF200-2C5	316 stainless steel Micro Motion® & 2700 Transmitter	2" ANSI Flanged	190-3250 lb/min	Agricultural liquids with 0.6-1.45 specific gravity
MMI CMF300-3C5	316 stainless steel Micro Motion® & 2700 Transmitter	3" ANSI Flanged	450-7500 lb/min	Agricultural liquids with 0.6-1.45 specific gravity
MMI CMF300-4C5	316 stainless steel Micro Motion® & 2700 Transmitter	4" ANSI Flanged	1800-15,000 lb/min	Agricultural liquids with 0.6-1.45 specific gravity



Electromagnetic Meter



Coriolis Mass Flow Meter

NON-CUSTODY TRANSFER METERS

ELECTROMAGNETIC

Electromagnetic Meter

These highly accurate meters with wide flow ranges can meter products with up to 50% solids, or any liquid that has a defined minimum electrical conductivity of 6 micro siemens.



PART NUMBER	METER	SIZE	FLOW METER	APPLICATIONS
EHM 5P300-1.5	PTFE-Lined Electromatic Meter	1.5" Flanged	7-150 GPM	Conductive liquids such as water and agri-chemicals
EHM 5P300-2	PTFE-Lined Electromatic Meter	2" Flanged	10-300 GPM	Conductive liquids such as water and agri-chemicals
EHM 5P300-3	PTFE-Lined Electromatic Meter	3" Flanged	24-800 GPM	Conductive liquids such as water and agri-chemicals
EHM 5P300-4	PTFE-Lined Electromatic Meter	4" Flanged	40-1250 GPM	Conductive liquids such as water and agri-chemicals

NOTE: 1/2" to 24" sizes available - Please call for pricing.

TURBINE

TCS 316 Stainless Steel Turbine Flow Meter

TCS 316 stainless steel turbine flow meter has an efficient design consisting of body with flow straighteners, rotor, and a magnetic pickup. These rugged meters offer outstanding accuracy at low cost. For clear liquids only.



*PART NUMBER	METER	SIZE	FLOW METER	APPLICATIONS
TCS TM75NXX	TCS 316 Stainless Steel Turbine Meter	3/4" NPT	2.9-29 GPM	Water and clear fertilizers only
TCS TM10NXX	TCS 316 Stainless Steel Turbine Meter	1" NPT	4-60 GPM	Water and clear fertilizers only
TCS TM15NXX	TCS 316 Stainless Steel Turbine Meter	1.5" NPT	8-130 GPM	Water and clear fertilizers only
TCS TM20NXX	TCS 316 Stainless Steel Turbine Meter	2" NPT	15-225 GPM	Water and clear fertilizers only
TCS TM20FXX	TCS 316 Stainless Steel Turbine Meter	2" Flanged	15-225 GPM	Water and clear fertilizers only
TCS TM30NXX	TCS 316 Stainless Steel Turbine Meter	3" NPT	40-650 GPM	Water and clear fertilizers only
TCS TM30FXX	TCS 316 Stainless Steel Turbine Meter	3" Flanged	40-65 GPM	Water and clear fertilizers only
TCS TM40FXX	TCS 316 Stainless Steel Turbine Meter	4" Flanged	75-1250 GPM	Water and clear fertilizers only

*All configurable upon request

TCS 316 Stainless Steel Turbine Flow Meter Assemblies

The assemblies come complete with a large display digital totalizer that features a 5 digit total and 13 digit totalizer display. The display also shows flow rates and creates a pulse output. Lithium battery or 9-30 volt DC powered. 115 Volt Available.



*PART NUMBER	MATERIAL	SIZE	FLOW RATE	REGISTER	PULSER
TCS TM10NZDCAM	TCS 316 Stainless Steel Turbine Meter	1" NPT	4-60 GPM	Water and clear fertilizers only	Upon Request
TCS TM15NZDCAM	TCS 316 Stainless Steel Turbine Meter	1.5" NPT	8-130 GPM	Digital Totalizer	Upon Request
TCS TM20NZDCAM	TCS 316 Stainless Steel Turbine Meter	2" NPT	15-225 GPM	Water and clear fertilizers only	Upon Request
TCS TM30NZDCAM	TCS 316 Stainless Steel Turbine Meter	3" NPT (Flanged available)	40-650 GPM	Digital Totalizer	Upon Request
TCS TM40FZDCAM	TCS 316 Stainless Steel Turbine Meter	4" Flanged	75-1250 GPM	Digital Totalizer	Upon Request

*All configurable upon request

SYSTEM COMPONENTS - METERS & METER PARTS

MINI-BULK METERS

SYSTEM COMPONENTS - METERS & METER PARTS

MINIBULK - POLYPROPYLENE

Flowserve® Digital Meter

This large 20mm display meter offers one-touch operation. The battery can be replaced without removing the meter, risking chemical exposure.



PART NUMBER	METER	SIZE	FLOW METER
SCI SEM-10FTP	Digital Polypropylene Meter with EPDM Gaskets. Accuracy: +/- .5%	1" NPT	2-20 GPM
SCI SEM-10	Digital Nylon Meter with FKM gaskets. Accuracy: +/- 1%	1" NPT	2-20 GPM
SCI SEM-10FT	Digital Polypropylene Meter with FKM Gaskets	1" NPT	2-30 GPM

Dura Digital Meter

Designed for easy calibration, this meter comes with calibration settings for commonly-used chemicals. It is also powered by common AA batteries for portability and convenience.



PART NUMBER	METER	SIZE	FLOW METER
DPI DURAMETER	Dura Digital Polypropylene Meter Accuracy: +/- 1%	1" NPT	2-20 GPM

Sotera Digital Meter

This one-step calibrated meter is ideal for end of hose use, in line or mounted to a Sotera pump. It is able to store and display the current flow amount (total) or the cumulative flow amount (totalizer) in any of six user-specified units.



PART NUMBER	METER	SIZE	FLOW METER
SOT 825	Sotera Digital Polypropylene Meter with FKM Gaskets. Accuracy: +/- 2%	1" NPT	2-20 GPM



Mini-Bulk Tanks

MEI offers both stackable and steel caged poly minibulk tanks. See page 71.

METER ACCESSORIES

SYSTEM COMPONENTS - METERS & METER PARTS

DISPLAYS

MEI ICS Totalizer Box



PART NUMBER	DESCRIPTION
ICS PDC-TOTLZR	Read and reset total from remote meter. All components are prewired and mounted in a 30" x 24" x 12" NEMA 4x fiberglass electrical enclosure. Optional NTEP Approved version available.

TCS 3000 Electronic Register/Flow Computer



PART NUMBER	DESCRIPTION
TCS 3000	NTEP certified electronic register that can be mounted directly to the TCS 682 and 700 meters at 75 or 90 angle, mounted remotely, and/or daisy chained for ease of use. Single or multiple products. Wireless communication available. Compatible with: TCS 682, TCS 700, and other volumetric meters

TCS Digital Totalizer



PART NUMBER	DESCRIPTION
PDC 6830-BM0-0	Die-cast aluminum explosion-proof digital totalizer that can be configured to display total and accumulated total in gallons, BBLs, liters, pounds or kilograms with its backlit 5 digit display. Can be wall or meter mounted and powered with a lithium battery or 12-24V DC. Compatible with: TCS TM Turbine Meter
PDC 6730-BM0-0	PDC 6730-BMO-0, but encased in a plastic NEMA 4X enclosure.

TCS 7887 Mechanical Register



PART NUMBER	DESCRIPTION
V/R 788700-036	NTEP-certified mechanical 1/10 US gallons register totalizes and displays high deliveries and transactions in large, easy-to-read figures. Displays a 5-digit resettable totalizer and 8 8-digit non-resettable totalizer. Compatible with: TCS 682, TCS 700, TCS 7888 Ticket Printer, TCS 7889 Preset Counter

TCS 7887 Register with TCS DMP Pulser



PART NUMBER	DESCRIPTION
V/R 788036-DMP	NTEP-certified mechanical 1/10 US Gallon register with dual channel 100:1 Solid State pulser, 9-24 VDC.
V/R 788039-DMP	NTEP-certified mechanical 1/1 US Gallons register with dual channel 100:1 Solid State pulser, 9-24 VDC.

METER ACCESSORIES (CONT.)



SYSTEM COMPONENTS -
METERS & METER PARTS

DISPLAYS (CONT.)

TCS 7887 Register with Veeder-Root pulser



PART NUMBER	DESCRIPTION
V/R 788702-015	NTEP-certified mechanical 1/10 US Gallons register with single channel 10:1 Reed pulser.
V/R 788803-003	NTEP-certified mechanical 1/1 US Gallons register with single channel 100:1 Solid State pulser, 12 VDC.

TCS 7888 Ticket Printer



PART NUMBER	DESCRIPTION
V/R 788810-004	1/10 US Gallons Printer & Cover
V/R 788810-013	1/1 Liter Printer & Cover
V/R 789000-076	NTEP-certified mechanical 1/10 US Gallons register with printer.
V/R 789000-077	NTEP-certified mechanical 1/1 liter register with printer.

AIR ELIMINATION/STRAINER

TCS Air Eliminator



PART NUMBER	DESCRIPTION
TCS 74020SS	2" Flanged stainless steel air eliminator to be mounted on the inlet side of a 2" TCS 682 or 700 meter.
TCS 74020AF	2" Flanged cast iron air eliminator to be mounted on the inlet side of a 2" SS TCS 682 or 700700.

Air Elimination Accessory



PART NUMBER	DESCRIPTION
CHM AE075SS	3/4" FNPT stainless steel air eliminator

BULK AIR ELIMINATION

TCS Stainless Steel Bulk Air Eliminator



PART NUMBER	DESCRIPTION
700 747-40SS	ASME Certified 4" ANSI Flanged bulk stainless steel air eliminator for air elimination in custody transfer scenarios. Features dual air eliminated heads to handle flow rates of up to 750 GPM. Compatible with: Bulk Systems

METER ACCESSORIES (CONT.)

PULSE OUTPUT FOR MECHANICAL REGISTERS

Direct Meter Mount – TCS 100:1



PART NUMBER	DESCRIPTION
TCS DMP10015	9-24 volts TCS 100:1 Direct Mount Pulser is a dual channel pulsers that sends 100:1 pulses to ICS products such as the ICS Totalizer box and preset box's. Compatible with: TCS 682 & 700 Meters

Register Mount – Veeder Root 1:1, 10:1, 100:1

Connect your meter's mechanical register with ICS Controls or other electronic software.

Compatible with: TCS 7887 mechanical register, ICS 120, ICS 360



PART NUMBER	DESCRIPTION
V/R 312020-905	10:1 single channel pulse output, 12 volts, and mount kit
V/R 312020-908	100:1 single channel pulse output, 12 volts, and mount kit

TEST PROVER

Test Cans



PART NUMBER	DESCRIPTION
ELL 5GALTEST	Certified 5 gallon stainless steel test can for calibration of a custody transfer meter.

FLANGE KIT

TCS L Series Dimensional Flange Adapter Kit for New Style Meters

(2 Flange kits required for full meter conversion.)



PART NUMBER	DESCRIPTION
TCS 680672KIT	682 stainless steel flange conversion adaptor kit with PTFE-Oring, full face gaskets and hardware
TCS 680670KIT	682 steel flange conversion adaptor kit with FKM-Oring, full face gaskets and hardware

SELF-PRIMING CENTRIFUGAL PUMP ASSEMBLIES

ELECTRIC POWERED

Long Coupled MP FLOMAX® Electric Motor Pump Assemblies

Long-coupled for easy maintenance, FLOMAX® self-priming centrifugal pumps are capable of creating vacuum sufficient to lift liquids from heights up to 25 feet above the source. Once primed, the pump's built in flapper valve will maintain a full column of liquid in the suction line.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET	HORSE POWER/ PHASE
FEP MP-7D	FLOMAX® 8 Cast Iron Double Seal	2" x 1.5" NPT	Up to 140 GPM	Up to 80'	5 HP, 1 Phase
FEP MP-7	FLOMAX® 8 Cast Iron	2" NPT	Up to 140 GPM	Up to 100'	5 HP, 1 Phase
FEP MP-7-SS	FLOMAX® 8 Self Priming Stainless Steel Pump	2" x 2" NPT	Up to 140 GPM	Up to 100'	5HP, 1 Phase
FEP MP-9D	FLOMAX® 8 Cast Iron Double Seal	2" x 1.5" NPT	Up to 140 GPM	Up to 80'	5 HP, 3 Phase
FEP MP-9	FLOMAX® 8 Cast Iron	2" NPT	Up to 140 GPM	Up to 100'	5 HP, 3 Phase
FEP MP-9-SS	FLOMAX® 8 Stainless Steel	2" NPT	Up to 140 GPM	Up to 100'	5 HP, 3 Phase
FEP MP-19	FLOMAX® 15 Cast Iron	3" NPT	Up to 280 GPM	Up to 145'	10 HP, 3 Phase
FEP MP19-SS	FLOMAX® 15 Stainless Steel	3" NPT	Up to 280 GPM	Up to 145'	10 HP, 3 Phase
FEP MP19/5B-10	FLOMAX® 15 Cast Iron with 5 Blade Stainless Steel Impeller	3" NPT	Up to 350 GPM	Up to 135'	10 HP, 3 Phase
FEP MP19/5B-15	FLOMAX® 15 Cast Iron with 5 Blade Stainless Steel Impeller	3" NPT	Up to 350 GPM	Up to 135'	15 HP, 3 Phase
FEP MP19/D-10	FLOMAX® 15 Cast Iron with 5 Blade Iron Impeller and Double Seal	3" NPT	Up to 350 GPM	Up to 130'	10 HP, 3 Phase
FEP MP19/D-15	FLOMAX® 15 Cast Iron with 5 Blade Iron Impeller and Double Seal	3" NPT	Up to 350 GPM	Up to 130'	15 HP, 3 Phase
FEP MP19-SS-15	FLOMAX® 15 Stainless Steel with 5 Blade Impeller	3" NPT	Up to 350 GPM	Up to 135'	15 HP, 3 Phase
FEP MP15SSDS10	FLOMAX® 15 Stainless Steel with Double Grease Seal	3" NPT	Up to 350 GPM	Up to 135'	10 HP, 3 Phase
FEP MP15SSDS15	FLOMAX® 15 Stainless Steel with Double Grease Seal	3" NPT	Up to 350 GPM	Up to 135'	15 HP, 3 Phase

SYSTEM COMPONENTS - PUMP ASSEMBLIES

SELF-PRIMING CENTRIFUGAL PUMP ASSEMBLIES (CONT.)

ELECTRIC POWERED (CONT.)

Banjo Long Coupled Self Priming Pump



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET	HORSE POWER/ PHASE
FEP MP-9-SS-B	2" Stainless Steel 200PB-SS Pump	2" x 2" NPT	Up to 190'	Up to 160'	5HP, 3 Phase
FEP BAN-19-SS	3" Stainless Steel 300PB-SS Pump	3" x 3" NPT	Up to 300'	Up to 110'	10HP, 3 Phase

Long Coupled Gorman-Rupp Series 80 Electric Motor Pump Assembly

Gorman Rupp 84 series self priming pump can operate at higher suction levels than most other self-priming centrifugal pumps.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET	HORSE POWER/ PHASE
FEP GORMAN-14	84 A2B	4" NPT	Up to 750 GPM	Up to 125'	25 HP, 3 Phase, 1750 RPM

Close Coupled MP FLOMAX® Electric Motor Pump Assemblies

Close coupled for a compact design, FLOMAX® self-priming centrifugal pumps are capable of creating vacuum sufficient to lift liquids from heights up to 20 feet above the source. Once primed, the pump's built in flapper valve will maintain a full column of liquid in the suction line.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET	HORSE POWER/ PHASE
FEP MP-20	FLOMAX® 5 Cast Iron	2" x 1 1/2" NPT	Up to 60 GPM	Up to 60'	2 HP, 1 Phase
FEP MP-21	FLOMAX® 5 Cast Iron	2" x 1 1/2" NPT	Up to 60 GPM	Up to 60'	2 HP, 3 Phase
FEP MP-531	FLOMAX® 5 Cast Iron	2" x 1 1/2" NPT	Up to 60 GPM	Up to 60'	3 HP, 1 Phase
FEP MP-533	FLOMAX® 5 Cast Iron	2" x 1 1/2" NPT	Up to 60 GPM	Up to 60'	3 HP, 3 Phase

SYSTEM COMPONENTS - PUMP ASSEMBLIES

SPECIALTY PARTS REPAIR SERVICES

MEI regularly repairs and provides replacement parts for pumps, meters, controls, tanks, control valves and other liquid handling accessories. This allows us to extend the life of your products while improving the overall ROI.

Call us at (260) 484-0382 to find out if your pump, meter, or other specialty part can be repaired by our highly knowledgeable staff.



SELF-PRIMING CENTRIFUGAL PUMP ASSEMBLIES (CONT.)

GASOLINE POWERED

Close Coupled MP FLOMAX® Gasoline Engine Pump Assemblies

Gasoline powered for portability, these self-priming centrifugal pumps are capable of creating vacuum sufficient to lift liquids from heights up to 20 feet above the source. Once primed, the pump's built in flapper valve will maintain a full column of liquid in the suction line.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET	ENGINE/ HORSE POWER
FEP MPF15D13HN	FLOMAX® 15 Cast Iron	3" x 3" NPT	Up to 240 GPM	Up to 130'	13HP Gas Engine, Electric Start
FEP MPF8HN5EPD	FLOMAX® 8 Cast Iron with EPDM seals	2" x 2" NPT	Up to 150 GPM	Up to 100'	5.5HP Honda Gas Engine, Electric Start
FEP MPF8DW/5HN	FLOMAX® 8 Cast Iron	2" x 2"	Up to 150 GPM	Up to 100'	5.5 Honda Gas Engine
FEP MPF15-8HN	FLOMAX® 15 Cast Iron	3" NPT	Up to 240 GPM	Up to 130'	8 HP Honda Engine
FEP MPF15-13HN	FLOMAX® 15 Cast Iron	3" NPT	Up to 240 GPM	Up to 130'	13 HP Honda with Electric Starter
FEP MP8SS5HNDE	FLOMAX® 8 Stainless Steel	2" NPT	Up to 120 GPM	Up to 80'	5.5 HP Honda with Electric Starter

Closed-Coupled Banjo Engine Pump Assemblies



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET	ENGINE/ HORSE POWER
FEP BANSS2X2-5	2" Stainless Steel	2" x 2" NPT	110 GPM	Up to 60'	5.5HP Honda Gas Engine
FEP BANSS2"5EL	2" Stainless Steel	2" x 2" NPT	110 GPM	Up to 60'	5.5HP, Honda Electric Start Engine

HYDRAULIC

Closed-Coupled MP FLOMAX® Hydraulic Pump Assemblies



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET	ENGINE/ HORSE POWER
MPP 36588	FLOMAX® 8 Cast Iron	2" NPT	Up to 140 GPM	Up to 100'	Hydraulic Motor
MPP 38119	FLOMAX® 15 Stainless Steel	3" ANSI Flanged	Up to 250 GPM	Up to 145'	Hydraulic Motor
MPP 28553	FLOMAX® 15 Cast Iron	3" NPT	Up to 280 GPM	Up to 145'	Hydraulic Motor
FEP MP19DS-HYD	FLOMAX® 8 Cast Iron Double Seal	3" x 3" NPT	Up to 320 GPM	Up to 145'	Hydraulic Motor
FEP MP19SS-HYD	FLOMAX® 15 Stainless Steel, EPDM	3" x 3"	Up to 320 GPM	Up to 145'	Hydraulic Motor

STRAIGHT CENTRIFUGAL PUMP ASSEMBLIES

For flooded suction applications.

MP

Long Coupled MP Centrifugal Electric Motor Pump Assemblies

Long-coupled for easy maintenance, these straight centrifugal pump assemblies can be used in a wide variety of agri-chemical applications.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET	HP/ PHASE
FEP MP120-51	MP Series 120 Cast Iron	2" x 1 1/2" NPT	Up to 160 GPM	Up to 140'	5 HP, 1 Phase
FEP MP120-53	MP Series 120 Cast Iron	2" x 1 1/2" NPT	Up to 160 GPM	Up to 140'	5 HP, 3 Phase
FEP MPCFL5-1	CHEMFLO® 5 316 Stainless Steel	2" x 1 1/2" ANSI Flanged	Up to 160 GPM	Up to 75'	5 HP, 1 phase
FEP MPCFL5-3	CHEMFLO® 5 316 Stainless Steel	2" x 1 1/2" ANSI Flanged	Up to 160 GPM	Up to 75'	5 HP, 3 phase
FEP MPFLC5-1E	CHEMFLO® 5 Stainless Steel	2" x 1-1/2" NPT	Up to 305 GPM	Up to 157'	5HP, 1 Phase
FEP MPFLC5-3E	CHEMFLO® 5 Stainless Steel	2" x 1-1/2" NPT	Up to 305 GPM	Up to 157'	5HP, 3 Phase
FEP MPCFL-6-10	CHEMFLO® 6 Stainless Steel	3" x 2" NPT	Up to 300 GPM	Up to 157'	10HP, 3 Phase
FEP MPCFL-6-15	CHEMFLO® 6 Stainless Steel	3" x 2" NPT	Up to 350 GPM	Up to 157'	15HP, 3 Phase
FEP MPCFL-6-20	CHEMFLO® 6 Stainless Steel	3" x 2" NPT	Up to 400 GPM	Up to 157'	20HP, 3 Phase
FEP MP-300-15	Series 300 Cast Iron	3" x 2-1/2" NPT	Up to 350 GPM	Up to 190'	15HP, 3 Phase
FEP MP-300-20	MP Series 300 Cast Iron	3" x 2 1/2" ANSI Flanged	Up to 400 GPM	Up to 130'	20 HP, 3 phase
FEP MP-300-25	Series 300 Cast Iron	3" x 2-1/2" NPT	Up to 450 GPM	Up to 190'	25HP, 3 Phase
FEP MP-700-25	MP Series 700 Cast Iron with 10" Impeller	4" x 3" ANSI Flanged	Up to 500 GPM	Up to 95'	25 HP, 3 phase
FEP MP-700-30	Series 700 Cast Iron	4" x 3" NPT	Up to 900 GPM	Up to 170'	30HP, 3 Phase

Close Coupled MP Centrifugal Electric Motor Pump Assemblies

Close-coupled for efficiency and compact design, and constructed of 316 stainless steel, these high quality pumps can be used in the widest variety of agri-chemical applications.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET	HP/ PHASE
FEP MPCFL1.5-1	CHEMFLO® 3 316 Stainless Steel	2" x 1 1/2" NPT	Up to 60 GPM	Up to 25'	1.5 HP, 1 phase
FEP MPCFL1.5-3	CHEMFLO® 3 316 Stainless Steel	2" x 1 1/2" NPT	Up to 60 GPM	Up to 25'	1.5 HP, 3 phase
FEP MPCF3-3H1C	CHEMFLO® 3 Stainless Steel	2" x 1-1/2" NPT	Up to 125GPM	Up to 105'	3 HP, 1 Phase
FEP MPCF3-3H3C	CHEMFLO® 3 Stainless Steel	2" x 1-1/2" NPT	Up to 125GPM	Up to 105'	3 HP, 3 Phase

SYSTEM COMPONENTS - PUMP ASSEMBLIES

STRAIGHT CENTRIFUGAL PUMP ASSEMBLIES (CONT.)

For flooded suction applications.

LABOUR

Long Coupled LaBour Centrifugal Electric Motor Pump Assemblies

These highly efficient straight centrifugal pumps are designed in conformance with A.N.S.I. dimensional standards. They are ideal for mix plants, loadout, multi-rail car unloading, and all-process applications. Pumps with Flowserve® cartridge seals.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET	HORSE POWER/ PHASE
FEP L-A40DIJ25	Ductile Iron Pump W/9.5" 316SS IMP & Shaft with CARB/SILCAR Flush Seal	4" x 3" ANSI Flanged	Up to 550 GPM	Up to 90'	25HP, 3 Phase
FEP L-A40DIK25	Ductile Iron Pump W/9.5" 316SS IMP & Shaft with SILCAR/SILCAR Flush Seal	4" x 3" ANSI Flanged	Up to 550 GPM	Up to 90'	25HP, 3 Phase
FEP L-A40SSJ25	316 Stainless Pump W/9.5" IMP & Shaft with CARB/SILCAR Flush Seal	4" x 3" ANSI Flanged	Up to 550 GPM	Up to 90'	25HP, 3 Phase
FEP L-A40SSK25	316 Stainless Pump W/9.5" IMP & Shaft with SILCAR/SILCAR Flush Seal	4" x 3" ANSI Flanged	Up to 550 GPM	Up to 90'	25HP, 3 Phase
FEP L-A70DIK20	Ductile Iron Pump W/10" IMP & Shaft with SILCAR/SILCAR Flush Seal	4" x 3" ANSI Flanged	Up to 400 GPM	Up to 110'	20HP, 3 phase
FEP L-A70DIJ20	Ductile Iron Pump W/10" IMP & Shaft with CARB/SILCAR Flush Seal	4" x 3" ANSI Flanged	Up to 400 GPM	Up to 110'	20HP, 3 phase
FEP L-A70SSK20	316 Stainless Pump W/10" IMP & Shaft with SILCAR/SILCAR Flush Seal	4" x 3" ANSI Flanged	Up to 400 GPM	Up to 110'	20HP, 3 phase
FEP L-A70SSJ20	316 Stainless Pump W/10" IMP & Shaft with CARB/SILCAR Flush Seal	4" x 3" ANSI Flanged	Up to 400 GPM	Up to 110'	20HP, 3 phase
FEP L-A80DIJ40	Ductile Iron Pump W/10" IMP & Shaft with CARB/SILCAR Flush Seal	6" x 4" ANSI Flanged	Up to 1000 GPM	Up to 95'	40HP, 3 Phase
FEP L-A80DIK25	Ductile Iron Pump W/9.5" IMP & Shaft with SILCAR/SILCAR Flush Seal	6" x 4" ANSI Flanged	Up to 900 GPM	Up to 85'	25HP, 3 Phase
FEP L-A80DIK40	Ductile Iron Pump W/10" IMP & Shaft with SILCAR/SILCAR Flush Seal	6" x 4" ANSI Flanged	Up to 1000 GPM	Up to 95'	40HP, 3 Phase
FEP L-A80SSJ40	316 Stainless Pump W/10" IMP & Shaft with CARB/SILCAR Flush Seal	6" x 4" ANSI Flanged	Up to 1000 GPM	Up to 95'	40HP, 3 Phase
FEP L-80DIK25	Ductile Iron Pump W/9.5" IMP & Shaft with SILCAR/SILCAR Flush Seal	6" x 4" ANSI Flanged	Up to 900 GPM	Up to 85'	25HP, 3 Phase
FEP L-80SSK40	316 Stainless Pump W/10" IMP & Shaft with SILCAR/SILCAR Flush Seal	6" x 4" ANSI Flanged	Up to 1000 GPM	Up to 95'	40HP, 3 Phase

STRAIGHT CENTRIFUGAL PUMP ASSEMBLIES (CONT.)

For flooded suction applications.

DURCO

Long Coupled Durco Centrifugal Electric Motor Pump Assemblies

Supplied with Flowserve® cartridge seals.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET	HP/ PHASE
FEP D-A40DIJ25	Ductile Iron Pump	4" x 3" ANSI Flanged	Up to 550 GPM	Up to 110'	25HP, 3 Phase
FEP D-A40SSJ25	316 Stainless Pump	4" x 3" ANSI Flanged	Up to 550 GPM	Up to 110'	25HP, 3 Phase
FEP D-A70DIJ20	Ductile Iron Pump	4" x 3" ANSI Flanged	Up to 400 GPM	Up to 95'	20HP, 3 Phase
FEP D-70SSJ20	316 Stainless Pump	4" x 3" ANSI Flanged	Up to 400 GPM	Up to 95'	20HP, 3 Phase
FEP D-A80DIJ40	Ductile Iron Pump	6" x 4" ANSI Flanged	Up to 1000 GPM	Up to 95'	40HP, 3 Phase
FEP D-A80SSJ40	316 Stainless Pump	6" x 4" ANSI Flanged	Up to 1000 GPM	Up to 95'	40HP, 3 Phase

DEMING

Long Coupled Deming Centrifugal Electric Motor Pump Assemblies

Deming centrifugal pumps offer volume pumping at competitive pricing. Non-ANSI.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET	HP/ PHASE
FEP 4021-3M-15	4021-3M Cast Iron with 9 1/2" Impeller	4" x 3" Flanged	Up to 400 GPM	Up to 95'	15 HP, 3 Phase
FEP 4021-3M-20	4021-3M Cast Iron with 10" Impeller	4" x 3" Flanged	Up to 450 GPM	Up to 110'	20 HP, 3 Phase
FEP 4021-4M-25	4021-4M Cast Iron with 10" Impeller	5" x 4" Flanged	Up to 800 GPM	Up to 105'	25 HP, 3 Phase
FEP 4021-5M-40	4021-5M Cast Iron with 10" Impeller	6" x 5" Flanged	Up to 1000 GPM	Up to 100'	40 HP, 3 Phase
FEP 4021-6M-40	4021-6M Cast Iron with 10" Impeller	6" x 6" Flanged	Up to 1400 GPM	Up to 85'	40 HP, 3 Phase

JOHN BLUE

Long Coupled John Blue Centrifugal Electric Motor Pump Assemblies



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET	HP/ PHASE
FEP JBC-3-103	3" Cast Iron	3" x 3" NPT	Up to 340 GPM	265' max	10HP, 3PH

MP

MP 300 Series Hydraulic Driven Pump

These straight centrifugal pumps are ideal for transport trucks.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET
MPP 27010	Series 300 Cast Iron with 7" Impeller	3" x 2 1/2" ANSI Flanged	Up to 400 GPM	Up to 170'

VERTIFLO®

Long Coupled Vertiflo® Centrifugal Electric Motor Pump Assemblies



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET	HP/ PHASE
FEP 1424-10-25	Vertiflo®	4" x 3" Flanged	Up to 600 GPM	100'	25HP, 3PH

SYSTEM COMPONENTS - PUMP ASSEMBLIES

POSITIVE DISPLACEMENT PUMP ASSEMBLIES

NONCORROSIVE & PETROLEUM

Blackmer Positive Displacement Pump Assemblies w/Explosion-Proof Motors

Blackmer Positive Displacement Pump assemblies are an excellent choice for clean, non-corrosive industrial liquids and petroleum products. Typical applications include fuel oils, lube oils, jet fuels, gasoline, diesel, edible oils, alcohols, solvents, and glycols.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET	HORSE POWER/ PHASE
PEP GNX2-1	GX Series Sliding Vane Cast Iron with 3.75 Gearbox 467 RPM	2" Flanged	Up to 42 GPM	Up to 115'	3 HP, 3 Phase - Explosion Proof
PEP GNX2-2	GX Series Sliding Vane Cast Iron with 2.65 Gearbox 660 RPM	2" Flanged	Up to 63 GPM	Up to 115'	5 HP, 3 Phase - Explosion Proof
PEP GNX21/2-1	GX Series Sliding Vane Cast Iron with 3.38 Gearbox 518 RPM	2 1/2" Flanged	Up to 90 GPM	Up to 115'	5 HP, 3 Phase - Explosion Proof
PEP GNX21/2-2	GX Series Sliding Vane Cast Iron with 2.65 Gearbox 660 RPM	2 1/2" Flanged	Up to 122 GPM	Up to 115'	7 1/2 HP, 3 Phase - Explosion Proof
PEP GNX3-1	GX Series Sliding Vane Cast Iron with 4.19 Gearbox 420 RPM	3" Flanged	Up to 176 GPM	Up to 115'	7 1/2 HP, 3 Phase - Explosion Proof
PEP GNX3-2	GX Series Sliding Vane Cast Iron with 3.4 Gearbox 520 RPM	3" Flanged	Up to 218 GPM	Up to 115'	10 HP, 3 Phase - Explosion Proof
PEP GNX3-3	GX Series Sliding Vane Cast Iron with 2.76 Gearbox 640 RPM	3" Flanged	Up to 250 GPM	Up to 115'	10 HP, 3 Phase - Explosion Proof
PEP GNX3-4	GX Series Sliding Vane Cast Iron with 2.76 Gearbox (Bigger Motor for heavier liquids) 640 RPM	3" Flanged	Up to 250 GPM	Up to 115'	15 HP, 3 Phase - Explosion Proof
PEP GNX4-1	GX Series Sliding Vane Cast Iron with 5.77 Gearbox 300 RPM	4" Flanged	Up to 300 GPM	Up to 115'	15 HP, 3 Phase - Explosion Proof
PEP GNX4-2	GX Series Sliding Vane Cast Iron with 4.36 Gearbox 400 RPM	4" Flanged	Up to 400 GPM	Up to 115'	20 HP, 3 Phase - Explosion Proof
PEP GNX4-3	GX Series Sliding Vane Cast Iron with 3.52 Gearbox 500 RPM	4" Flanged	Up to 500 GPM	Up to 115'	25 HP, 3 Phase - Explosion Proof

NH3 Sliding Vane Pump Assemblies



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HORSE POWER/ PHASE
BLK LGL2-53	LGL series ductile iron with 2.66:1 gearbox	2" Flanged	Up to 100 GPM	5HP, 3ph 1725 RPM
BLK LGL3-103	LGL series ductile iron with 2.77:1 gearbox	3" Flanged	Up to 200 GPM	10HP, 3ph 1725 RPM
BLK LGL2-51	LGL series ductile iron with 2.66:1 gearbox	2" Flanged	Up to 100 GPM	5HP, 1ph 1725 RPM
BLK LGL3-101	LGL series ductile iron with 2.77:1 gearbox	3" Flanged	Up to 200 GPM	10HP, 1ph 1725 RPM

SYSTEM COMPONENTS - PUMP ASSEMBLIES

POSITIVE DISPLACEMENT PUMP ASSEMBLIES (CONT.)

ROPER®

Long Coupled Roper® Gear Pump Electric Motor Pump Assemblies



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET	HORSE POWER/ PHASE
FEP ROP2835-1	1.5" Roper®	1.5" x 1.5" NPT	11 GPM max	Up to 173'	1.5HP, 1PH
FEP ROP2835-3	1.5" Roper®	1.5" x 1.5" NPT	11 GPM max	Up to 173'	1.5HP, 3PH

SYSTEM COMPONENTS -
PUMP ASSEMBLIES

ON-HAND INVENTORY

Murray Equipment keeps a large inventory of parts on-hand including brands like Deming, Gorman-Rupp, Labour, and MP to ship on demand. We understand our customers' businesses require minimal downtime. So, not only do we ensure each system part is designed to withstand chemical and environmental wear, we also keep our shelves stocked with replacement parts.



MINI-BULK PUMP ASSEMBLIES

ELECTRIC CADDY

Flowserve® CT6 Mini-Bulk Caddy Diaphragm Pumps

Ideal for dispensing liquids from mini-bulk tanks or drums, the portable CT6 is designed to handle both lower and higher viscosity liquids.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET	MOTOR
SCI CADCT6-414	CT6 Pump with 1" Polyethylene-Lined 8' Suction & 12' Delivery Hoses with 1" male NPT ends installed & SEM10 Poly Meter	1" NPT	Up to 10 GPM	Up to 55'	12 Volt Electric
SCI CADCT6EPDM	CT6 Pump with 1" EPDM 8' Suction & 12' Delivery Hoses 1" male NPT ends installed & SEM10 Poly Meter	1" NPT	Up to 10 GPM	Up to 55'	12 Volt Electric

Sotera 400 Series Mini-Bulk Caddy Diaphragm Pumps

Ideal for dispensing liquids from mini-bulk tanks or drums, the portable Sotera 400 is ideal for both dispensing and recirculating high viscosity products.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET	MOTOR
SOT SS435-414	Sotera 400 Series with 1" Polyethylene-Lined 8' Suction and 12' Discharge Hoses 1" male NPT ends installed & Sotera 825 Poly Meter	1" NPT	Up to 13 GPM	Up to 35'	12 Volt Electric
SOT SS435-EPDM	Sotera 400 Series with 1" EPDM 8' Suction and 12' Discharge Hoses 1" male NPT ends installed & Sotera 825 Poly Meter	1" NPT	Up to 13 GPM	Up to 35'	12 Volt Electric
SOT SS465-414	Sotera 400 Series with 1" Polyethylene-Lined 8' Suction and 12' Discharge Hoses 1" male NPT ends installed & Sotera 825 Poly Meter	1" NPT	Up to 13 GPM	Up to 35'	110 Volt Electric
SOT SS465-EPDM	Sotera 400 Series with 1" EPDM 8' Suction and 12' Discharge Hoses 1" male NPT ends installed & Sotera 825 Poly Meter	1" NPT	Up to 13 GPM	Up to 35'	110 Volt Electric

MINI-BULK PUMP ASSEMBLIES (CONT.)

ELECTRIC SIDE MOUNTED PUMP

Flowserve® CT6 Mini-Bulk Side-Mounted Diaphragm Pumps

Ideal for dispensing liquids from caged IBCs/mini-bulk tanks, the CT6 is designed to handle both lower and higher viscosity liquids. It is mounted on a steel hanger to be hung on a caged IBC/mini-bulk tank



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET	MOTOR
SCI CT6CAGE-E	CT6 Pump with 1" EPDM 8' Suction & 12' Delivery Hoses 1" male NPT ends installed and SEM10 Poly Meter	1" NPT	Up to 10 GPM	Up to 55'	12 Volt Electric

TOP MOUNT

Flowserve® CT6 Mini-Bulk Top Mount Diaphragm Pumps

The CT6 diaphragm transfer pump is engineered for use with low and high viscosity fluids. Designed to fit virtually any container, the CT6 is the standard for many ag-chem mini-bulk systems.



PART NUMBER	PUMP	DISCHARGE	FLOW RATE	HEAD FEET	MOTOR
SCI CT6GEM-S	CT6 Pump with 1" Polyethylene-Lined 8' Suction & 12' Delivery Hoses 1" male NPT ends installed & SEM10 Poly Meter. Includes Cap	1" NPT	Up to 10 GPM	Up to 55'	12 Volt Electric
SCI CT6GEM-E	CT6 Pump with 1" EPDM 8' Suction & 12' Delivery Hoses 1" male NPT ends installed & SEM10 Poly Meter. Includes Cap.	1" NPT	Up to 10 GPM	Up to 55'	12 Volt Electric

Sotera 400 Series Mini-Bulk Top Mount Diaphragm Pumps

Ideal for dispensing liquids from mini-bulk tanks, the top mounted Sotera 400 is ideal for both dispensing and recirculating high viscosity products.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET	MOTOR
SOT SS445-414	Sotera 400 Series with 1" Polyethylene-Lined 8' Suction and 12' Discharge Hoses 1" male NPT ends installed & Sotera 825 Poly Meter	2" x 1" NPT	Up to 13 GPM	Up to 35'	12 Volt Electric
SOT SS445-EPDM	Sotera 400 Series with 1" EPDM 8' Suction and 12' Discharge Hoses 1" male NPT ends installed & Sotera 825 Poly Meter	2" x 1" NPT	Up to 13 GPM	Up to 35'	12 Volt Electric

Flowserve® AP-30 Air Operated Pump

With no motor to burn out and with minimal moving parts, AP-30 is extremely reliable and requires little maintenance. Its construction resists corrosion from most agricultural and industrial chemicals. The pump is built with no metal-to-metal contact to reduce wear.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET	PSI
SCI AIRPUMPCOM	Aluminum Air Piston Pump 1" x 12' EPDM delivery hose, nozzle & suction tube.	1" x 1" FNPT	Up to 30 GPM	Up to 60'	Up to 100 PSI

MINI-BULK PUMPS

ELECTRIC PUMPS

Flowserve® CT6

Replacement pumps for Flowserve® CT6 assemblies.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET	MOTOR
SCI CT6	CT6 Nylon Diaphragm Pump	2" x 1" NPT	Up to 10 GPM	Up to 57'	Integrated 12 Volt Electric

AIR PUMPS

Flowserve® AP-30 Air Operated Pump

Replacement pumps for Flowserve® AP-30 assemblies.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE
SCI AIRPUMP	Aluminum Air Piston Pump	1" x 1" NPT	Up to 30 GPM

HAND PUMPS

Piston Hand Pump



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE
SOT FRHP32V	Hand Lever Piston Polypropylene Pump	2" NPT	Up to 11 ounces per stroke

SELF-PRIMING CENTRIFUGAL PUMPS

MP

MP FLOMAX® Pumps (PumPAK)

Replacement pumps for MP FLOMAX® self-priming centrifugal pump close coupled assemblies.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET
MPP 27644	FLOMAX® 5 Cast Iron	1.5 NPT	Up to 100 GPM	Up to 70'
MPP 27984	FLOMAX® 5 Cast Iron	1.5 NPT	Up to 120 GPM	Up to 90'
MPP 21327	FLOMAX® 8 Cast Iron	2" NPT	Up to 140 GPM	Up to 100'
MPP 37147	FLOMAX® 8 Stainless Steel	2" ANSI Flanged	Up to 140 GPM	Up to 100'
MPP 21372	FLOMAX® 15 Cast Iron	3" NPT	Up to 280 GPM	Up to 145'

MP FLOMAX® Pedestal Pumps for Long Coupling

Replacement pumps for MP FLOMAX® self-priming centrifugal pump long coupled assemblies.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET
MPP 33631	FLOMAX® 8 Double Seal Cast Iron	2" NPT	Up to 140 GPM	Up to 100'
MPP 21339	FLOMAX® 8 Cast Iron	2" NPT	Up to 140 GPM	Up to 100'
MPP 36862	FLOMAX® 8 Stainless Steel	2" ANSI Flanged	Up to 140 GPM	Up to 100'
MPP 21381	FLOMAX® 15 Cast Iron	3" NPT	Up to 280 GPM	Up to 145'
MPP 34793	FLOMAX® 15 Stainless Steel for 10 HP	3" NPT	Up to 280 GPM	Up to 145'
MPP 38433	FLOMAX® 15 Stainless Steel for 15 HP	3" NPT	Up to 300 GPM	Up to 145'
MPP 33301	FLOMAX® 15 Cast Iron Double Seal 5 Blade 5" Stainless Steel Impeller for 10 HP	3" NPT	Up to 280 GPM	Up to 145'
MPP 31840	FLOMAX® 15 Cast Iron Double Seal 5 Blade 6" Stainless Steel Impeller for 15 HP	3" NPT	Up to 280 GPM	Up to 145'
MPP 29649	FLOMAX® 15 Cast Iron with 5 Blade 5.5" Stainless Steel Impeller for 10 HP	3" NPT	Up to 280 GPM	Up to 145'
MPP 29648	FLOMAX® 15 Cast Iron with 5 Blade 6" Stainless Steel Impeller for 15 HP	3" NPT	Up to 300 GPM	Up to 145'
MPP 50015	FLOMAX® 15 Stainless Steel Double Grease Seal with 5" Impeller for 10 HP	3" NPT	Up to 280 GPM	Up to 145'
MPP 50048	FLOMAX® 15 Stainless Steel Double Grease Seal with 6" Impeller for 15 HP	3" NPT	Up to 300 GPM	Up to 145'



SYSTEM COMPONENTS -
PUMPS & PUMP PARTS

SELF-PRIMING CENTRIFUGAL PUMPS (CONT.)

GORMAN-RUPP

Series 80 Pedestal Pumps for Long Coupling

Replacement pumps for Gorman Series 80 self-priming centrifugal pump long coupled assemblies.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET
GRP 83C2BPUMP	Series 80 Cast Iron	3" NPT	Up to 250 GPM	Up to 45'
GRP 84A2B	Series 80 Cast Iron	4" NPT	Up to 550 GPM	Up to 90'

BANJO

Banjo Pumps



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET	PSI
BAN 205PB	2" polypropylene bearing pedestal with 3/4" shaft & 5 vane impeller	2" NPT	Up to 190 GPM	Up to 110'	Up to 50 PSI
BAN 200POSS	2" stainless steel pump only with 3/4" shaft sleeve	2" NPT	Up to 140 GPM	Up to 110'	Up to 45 PSI
MPP 36862-B	2" stainless steel pump with cast iron bearing pedestal 3/4 straight shaft*	2" NPT	Up to 140 GPM	Up to 100'	Up to 45 PSI
BAN 300-PB/SS	3" stainless steel pump with cast iron bearing pedestal 1" straight shaft*	3" NPT	Up to 270 GPM	Up to 120'	Up to 50 PSI

CUSTOM PUMP ASSEMBLIES

Need a pump assembly? MEI can create a custom assembly to meet the requirements of your application.

Call us today at (260) 484-0382 to speak to one of our pump experts. We can provide a timeframe and pricing.



STRAIGHT CENTRIFUGAL PUMPS

MP

MP Straight Centrifugal Pumps

Replacement pumps for MP straight centrifugal pump assemblies.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET
MPP 33297	Series 120 Cast Iron with 5.9" Impeller	2" x 1 1/2" NPT	Up to 100 GPM	Up to 130'
MPP 27005	Series 300 Cast Iron with 7" Impeller	3" x 2 1/2" ANSI Flanged	Up to 400 GPM	Up to 190'
MPP 33678	Series 700 Cast Iron with 10" Impeller	4" x 3" ANSI Flanged	Up to 500 GPM	Up to 90'



We Don't Just Go With The Flow, We Create It!®

MEI is a master distributor of MP Pumps. This distinction allows us to supply 1,000s of products and parts to our customers at preferred pricing.

MP Pumps are made right here in the USA.

Visit www.MPPumps.com for more information.



SYSTEM COMPONENTS -
PUMPS & PUMP PARTS

STRAIGHT CENTRIFUGAL PUMPS (CONT.)

LABOUR

LaBour Straight Centrifugal Pedestal Pumps

Replacement pumps for LaBour Straight Centrifugal ANSI Pump Assemblies. Pumps with Flowserve® cartridge seals.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET
LBR AB8SS-1J	AB8 Ductile Iron with 6" stainless steel impeller with CARB/SILCAR Flush Seal	3" x 1 1/2" ANSI Flanged	Up to 30 GPM	Up to 40'
LBR A40DI-1K	A40 Ductile Iron with 10" stainless steel impeller with SILCAR/SILCAR Flush Seal	4" x 3" ANSI Flanged	Up to 500 GPM	Up to 100'
LBR A40SS-1K	A40 Stainless Steel with 10" stainless steel impeller with SILCAR/SILCAR Flush Seal	4" x 3" ANSI Flanged	Up to 500 GPM	Up to 100'
LBR A70DI-1K	A70 Ductile Iron with 10" stainless steel impeller with SILCAR/SILCAR Flush Seal	4" x 3" ANSI Flanged	Up to 400 GPM	Up to 100'
LBR A70SS-1K	A70 Stainless Steel with 10" stainless steel impeller with SILCAR/SILCAR Flush Seal	4" x 3" ANSI Flanged	Up to 400 GPM	Up to 100'
LBR A80DI-1K	A80 Ductile Iron with 10" stainless steel impeller with SILCAR/SILCAR Flush Seal	6" x 4" ANSI Flanged	Up to 1000 GPM	Up to 90'
LBR A80DI1K9.5	316 stainless steel pump W/9.5" 316SS IMP & shaft with GLS to SINT SC seal	6" x 4" ANSI Flanged	Up to 900 GPM	Up to 85'
LBR A80SS-1J	315 stainless pump W/10" 316SS IMP & shaft with carb/silcar flush seal	6" x 4" ANSI Flanged	Up to 1000 GPM	Up to 95'
LBR A80SS-1K	316 stainless pump W/10" 316SS IMP & shaft with SILCAR/SILCAR Flush Seal	6" x 4" ANSI Flanged	Up to 1000 GPM	Up to 95'
LBR A80SS9.5LS	316 stainless pump W/9.5" 316SS IMP & shaft	6" x 4" ANSI Flanged	Up to 900 GPM	Up to 85'
LBR A80SS-1K	A80 Stainless Steel with 10" stainless steel impeller with SILCAR/SILCAR Flush Seal	6" x 4" ANSI Flanged	Up to 1000 GPM	Up to 90'

DEMING

Deming Straight Centrifugal Pedestal Pumps

Replacement pumps for Deming straight centrifugal pump assemblies.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET
DEM 402185/8PO	4021-3M Cast Iron with 8 5/8" Impeller	4" x 3" ANSI Flanged	Up to 400 GPM	Up to 80'
DEM 402191/2PO	4021-3M Cast Iron with 9 1/2" Impeller	4" x 3" ANSI Flanged	Up to 450 GPM	Up to 95'
DEM 402110PO	4021-3M Cast Iron with 10" Impeller	4" x 3" ANSI Flanged	Up to 500 GPM	Up to 110'
DEM 4021-4M	4021-4M Cast Iron with 10" Impeller	5" x 4" ANSI Flanged	Up to 800 GPM	Up to 100'
DEM 4021-5M	4021-5M Cast Iron with 10" Impeller	6" x 5" ANSI Flanged	Up to 1100 GPM	Up to 100'
DEM 4021-6M	4021-6M Cast Iron with 10" Impeller	6" x 6" ANSI Flanged	Up to 1600 GPM	Up to 85'

STRAIGHT CENTRIFUGAL PUMPS (CONT.)

DURCO



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET
FSD A40DI-1J	Ductile iron pump w/10" 316SS IMP & shaft with CARB/SILCAR flush seal	4" x 3" ANSI Flanged	Up to 550 GPM	Up to 100'
FSD A40DI-1K	Ductile iron pump w/10" 316SS IMP & shaft with SILCAR/SILCAR Flush Seal	4" x 3" ANSI Flanged	Up to 550 GPM	Up to 100'
FSD A40SS-1J	316 stainless steel pump 1/10" 316SS IMP & shaft with CARB/SILCAR flush seal	4" x 3" ANSI Flanged	Up to 550 GPM	Up to 100'
FSD A40SS-1K	316 stainless pump w/10" 316SS IMP & shaft with SILCAR/SILCAR Flush Seal	4" x 3" ANSI Flanged	Up to 550 GPM	Up to 100'
FSD A70DI-1J	Ductile iron pump w/10" 316SS IMP & shaft with CARB/SILCAR flush seal	4" x 3" ANSI Flanged	Up to 450 GPM	Up to 100'
FSD A70DI-1K	Ductile iron pump w/10" 316SS IMP & shaft with SILCAR/SILCAR Flush Seal	4" x 3" ANSI Flanged	Up to 450 GPM	Up to 100'
FSD A70SS-1J	316 stainless pump 1/10" 316SS IMP & shaft with CARB/SILCAR flush seal	4" x 3" ANSI Flanged	Up to 450 GPM	Up to 100'
FSD A70SS-1K	316 stainless pump 1/10" 316SS IMP % shaft with SILCAR/SILCAR Flush Seal	4" x 3" ANSI Flanged	Up to 450 GPM	Up to 100'
FSD A80DI-1J	Ductile iron pump 1/10" 316SS IMP & shaft with CARB/SILCAR flush seal	6" x 4" ANSI Flanged	Up to 1000 GPM	Up to 100'
FSD A80DI-1K	Ductile iron pump 1/10" 316SS IMP & shaft with SILCAR/SILCAR Flush Seal	6" x 4" ANSI Flanged	Up to 1000 GPM	Up to 100'
FSD A80SS-1J	316 stainless pump 1/10" 316SS IMP & shaft with CARB/SILCAR flush seal	6" x 4" ANSI Flanged	Up to 1000 GPM	Up to 100'
FSD A80SS-1K	316 stainless pump 1/10" 316SS IMP & shaft with SILCAR/SILCAR Flush Seal	6" x 4" ANSI Flanged	Up to 1000 GPM	Up to 100'

VERTIFLO®

Vertiflo® Straight Centrifugal Pedestal Pumps

Replacement Vertiflo® straight centrifugal pumps.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET
VER 1424-4X3	1424 Series Cast Iron Single Seal with 10" Impeller	4" x 3" ANSI Flanged	Up to 600 GPM	Up to 110'

JOHN BLUE

John Blue Centrifugal Pumps



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET
JBC SP3340P	3" self-priming cast iron pedestal pump	3" x 3" NPT	Up to 340 GPM	265' max



SYSTEM COMPONENTS - PUMPS & PUMP PARTS

POSITIVE DISPLACEMENT PUMPS

SLIDING VANE PUMPS

Blackmer Positive Displacement NH3 Vane Pumps

Replacement pumps for Blackmer positive displacement vane pump assemblies.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	PSI
BLK LGL2ONLY	LGL Series Ductile Iron	2" NPT Flanged	Up to 100 GPM	Up to 150 PSI
BLK LGL3ONLY	LGL Series Ductile Iron	3" NPT Flanged	Up to 100-120 GPM	Up to 150 PSI

Blackmer Positive Displacement Vane Pumps and Gear Box

Replacement pumps for Blackmer positive displacement vane pump assemblies. For refined fuels and light oils.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	HEAD FEET
BLK GNX2.5R338	GX Series Cast Iron with 3.38 Gearbox	2 1/2" NPT Flanged	Up to 97 GPM	Up to 115'
BLK GNX2.5R265	GX Series Cast Iron with 2.65 Gearbox	2 1/2" NPT Flanged	Up to 122 GPM	Up to 115'

Blackmer Positive Displacement DEF Vane Pumps



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	PSI
BLK SX1B-DEF12	STX Series Stainless Steel	1" x 1" FNPT	Up to 10 GPM	Up to 23 PSI
BLK STX1220DEF	STX Series Stainless Steel	2" x 2" NPT	Up to 92 GPM	Up to 125 PSI
BLK STX3-DEF	STX Series Stainless Steel with 2.50 Gear Box	3" x 3" Weld Flange	Up to 215 GPM	Up to 75 PSI

GEAR PUMPS

Ranger Positive Displacement Gear Pumps

Replacement pumps for Ranger positive displacement gear pump assemblies. For oils and liquid feed.



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	PSI
RAN 229MGBFRV	3" PUMP/MECHSEAL/BRZ BRG W4. 6:1	3" x 3" NPT	Up to 165 GPM	125 PSI max
RAN 229MHBFRV	3" PUMP/MECHSEAL/BRZ BRG no gear reducer	3" x 3" NPT	Up to 165 GPM	125 PSI max
RAN 229MHBFRVC	3" PUMP/MECHSEAL/CARBON BRG no gear reducer	3" x 3" NPT	Up to 165 GPM	125 PSI max

Roper® Gear Pump

Replacement pumps for Roper® 2835 pump assemblies



PART NUMBER	PUMP	SUCTION & DISCHARGE	FLOW RATE	PSI
ROP 2835P	Roper® 2835 Cast Iron Pump with Iron Bearings	1 1/2" NPT	Up to 11 GPM	Up to 75 PSI

PUMP MOTORS

LONG COUPLED

Long Coupled Single Phase Motors - Totally Enclosed Fan Cooled (TEFC)

Replacement motors for long coupled pump assemblies where single phase is required.



PART NUMBER	HORSE POWER	PHASE	SPEED	FRAME	HOUSING
MOT 3H1P3600	3 HP	1 Phase	3600 RPM	182T	Steel
MOT 5H1P1725	5 HP	1 Phase	1725 RPM	184T	Steel
MOT 5H1P3600	5 HP	1 Phase	3600 RPM	184T	Steel
MOT 10H1P1725	10 HP	1 Phase	1725 RPM	215T	Steel
MOT 10H1P3600	10 HP	1 Phase	3600 RPM	215T	Steel

Long Coupled Three Phase Motors - Totally Enclosed Fan Cooled (TEFC)

Replacement motors for long coupled pump assemblies where three phase efficiency is desired.



PART NUMBER	HORSE POWER	PHASE	SPEED	FRAME	HOUSING
MOT 3H3P3600	3 HP	3 Phase	3600 RPM	182T	Steel
MOT 5H3P1725	5 HP	3 Phase	1725 RPM	184T	Steel
MOT 5H3P3600	5 HP	3 Phase	3600 RPM	184T	Steel
MOT 7.5H3P1725	7.5 HP	3 Phase	1725 RPM	213T	Steel
MOT 7.5H3P3600	7.5 HP	3 Phase	3600 RPM	213T	Steel
MOT 10H3P1725	10 HP	3 Phase	1725 RPM	215T	Cast Iron
MOT 10H3P3600	10 HP	3 Phase	3600 RPM	215T	Cast Iron
MOT 15H3P1725	15 HP	3 Phase	1725 RPM	254T	Cast Iron
MOT 20H3P1725	20 HP	3 Phase	1725 RPM	256T	Cast Iron
MOT 20H3P3600	20 HP	3 Phase	3600 RPM	256T	Cast Iron
MOT 25H3P1725	25 HP	3 Phase	1725 RPM	284T	Cast Iron
MOT 25H3P3600	25 HP	3 Phase	3600 RPM	284T	Cast Iron
MOT 30H3P1725	30 HP	3 Phase	1725 RPM	286T	Cast Iron

BALDOR

A MEMBER OF THE ABB GROUP



Murray Equipment believes in providing the most value to our customers. That's why we supply Baldor super high efficiency pump motors.

Baldor motors provide the highest cost savings without sacrificing reliability or lifespan.

PUMP MOTORS (CONT.)

SYSTEM COMPONENTS - PUMPS & PUMP PARTS

CLOSE COUPLED

Close Coupled Single Phase Motors - Totally Enclosed Fan Cooled (TEFC)

Replacement motors for closed coupled pump assemblies where single phase is required.



PART NUMBER	HORSE POWER	PHASE	SPEED	FRAME	HOUSING
MOT 2H1P3600	2 HP	1 Phase	3600 RPM	56C	Steel
MOT 3H1P3600C	3 HP	1 Phase	3600 RPM	182TC	Steel

Close Coupled Three Phase Motors - Totally Enclosed Fan Cooled (TEFC)

Replacement motors for closed coupled pump assemblies where three phase efficiency is required.



PART NUMBER	HORSE POWER	PHASE	SPEED	FRAME	HOUSING
MOT 2H3P3600	2 HP	3 Phase	3600 RPM	56C	Steel
MOT 3H3P3600C	3 HP	3 Phase	3600 RPM	145TC	Steel

LONG COUPLED –EXPLOSION PROOF

Long Coupled Three Phase Motors

Replacement motors for long coupled pump assemblies where three phase is required and flammable liquids are being handled.



PART NUMBER	HORSE POWER	PHASE	SPEED	FRAME	HOUSING
MOT 3H3P3600XP	3 HP	3 Phase	3600 RPM	182T	Steel
MOT 5H3P3600XP	5 HP	3 Phase	3600 RPM	184T	Steel
MOT 10H3P1725X	10 HP	3 Phase	1725 RPM	215T	Cast Iron
MOT 10H3P3600X	10 HP	3 Phase	3600 RPM	215T	Cast Iron
MOT 15H3P1725X	15 HP	3 Phase	1725 RPM	254T	Cast Iron
MOT 20H3P1725X	20 HP	3 Phase	1725 RPM	256T	Cast Iron
MOT 25H3P1725X	25 HP	3 Phase	1725 RPM	284T	Cast Iron



EDUCTORS

LIQUID ONLY

Low Volume Pump Eductor

Introduce hand-add liquid products into your mixes using your existing pumping system.



PART NUMBER	DESCRIPTION
MIX 3LIQSSCOMP	This 3" eductor includes a 15 gallon 316 stainless steel funnel, and induction venturi assembly. Requires a compatible high head pump as eductor works via the venturi effect.

LIQUID & DRY

Eductor with Funnel

Introduce hand-add liquid or dry products into your mixes using your existing pumping system.



PART NUMBER	DESCRIPTION
MIX 3EDUCTSSCO	This 3" eductor includes a 15 gallon stainless steel funnel, and induction venturi assembly. Requires a compatible high head pump as eductor works via the venturi effect.
MIX 4EDUCTSSCO	MIX 3EDUCTSSCO, except 4" and 400-500 GPM range.

Mix Plants

MEI is the leading manufacturer of liquid fertilizer manufacturing systems. Learn more about our mix plant solutions on page 23.

BULK TANKS

High-volume tank selection varies depending on products to be stored. Please call for recommendations for your specific application. Industry-standard tanks designed for complete draining. Tank selection varies depending on products to be stored. Please call for recommendations for your specific application.

SYSTEM COMPONENTS - BULK TANKS

STAINLESS STEEL CONE BOTTOM

304 Stainless Steel Tanks with Dual In-Tank Eductors



PART NUMBER	DESCRIPTION	DIMENSIONS
PTE TNK2400D23	2,400 Gallons	70" Diameter x 168" Tall
PTE TNK4300D23	4,300 Gallons	94" Diameter x 168" Tall
PTE TNK5100D23	5,100 Gallons	94" Diameter x 228" Tall
PTE TNK6100D23	6,100 Gallons	94" Diameter x 228" Tall
PTE TNK10KD2	10,000 Gallons	142" Diameter x 205" Tall

316 Stainless Steel Tanks



PART NUMBER	DESCRIPTION	DIMENSIONS
PTE TNK2400316	2,400 Gallons	70" Diameter x 168" Tall
PTE TNK4300316	4,300 Gallons	94" Diameter x 168" Tall
PTE TNK5100316	5,100 Gallons	94" Diameter x 228" Tall
PTE TNK6100316	6,100 Gallons	94" Diameter x 228" Tall
PTE TNK10K316	10,000 Gallons	142" Diameter

Available upon request: Polyethylene Cone Bottom, Polyethylene Flat Bottom, Fiberglass Flat Bottom and Milde Steel Flat Bottom



Fiberglass Flat Bottom



High Density Linear Polyethylene Cone Bottom



Mild Steel Flat Bottom



Polyethylene Flat Bottom

TANK MONITORING

ELECTRONIC LEVEL DISPLAYS & SENSORS

ICS Sensor Local & Remote Display

See page 14 for more details.

Radar Sensor

This highly accurate sensor is mainly used on larger tanks up to 60' tall. It mounts to the top of the tank and can be used indoors or outdoors as it is not affected by temperature or humidity. It can also be used with conductive liquids.



PART NUMBER	DESCRIPTION
VEG XXANPHKNAX	1 ½" NPT VEGA PULS61 radar sensor.
VEG XXBFKHKXAX	4" Flanged VEGA PULS61 radar sensor. An Indicating/Adjustment Module is integrated into the sensor housing.

Indicating/Adjustment Module for VEGA Level Sensors



PART NUMBER	DESCRIPTION
VEG PLICSCOMXB	This display and adjustment module is used for measured value indication, adjustment, and diagnosis of VEGA sensors. The unit is integrated into the respective sensor housing.

PSI GAUGES

Liquid Filled Pressure Gauge



PART NUMBER	DESCRIPTION
PFV WGGSS100	¼ NPT Stainless Steel liquid filled 0-100 psi 2 ½" gauge.
PFV WGGSS160	¼ NPT Stainless Steel liquid filled 0-160 psi 2 ½" gauge.
PFV WGGSS400	¼ NPT Stainless Steel liquid filled 0-400 psi 2 ½" gauge.
PFV WGGSS60	¼ NPT Stainless Steel liquid filled 0-60 psi 2 ½" gauge.

Pressure Gauge



PART NUMBER	DESCRIPTION
PFV 21/2PR100	¼ NPT 0-100 psi 2 ½" pressure gauge.
PFV 21/2PR60	¼ NPT 0-60 psi 2 ½" pressure gauge.
PFV 21/2PR160	¼ NPT 0-160 psi 2 ½" pressure gauge.
PFV 21/2PR200	¼ NPT 0-200 psi 2 ½" pressure gauge.

MECHANICAL LEVEL DISPLAY

Morrison Tank Gauge



PART NUMBER	DESCRIPTION
MOR 818	Manual tank gauge that mounts to the top of the tank. Uses float to read in feet and inches up to 12 feet.

TANK MONITORING (CONT.)

SYSTEM COMPONENTS - BULK TANK ACCESSORIES

FLOAT SWITCHES

Bronze Float Valve

Used for water service. Sized and weighted to assure leak-proof shut off.



PART NUMBER	DESCRIPTION
GAD ACF-1	1" Bronze Angle Float Valve
GAD ACF-11/2	1 1/2" Bronze Angle Float Valve
GAD ACF-2	2" Bronze Angle Float Valve

Stainless Steel Float Switches



PART NUMBER	DESCRIPTION
GEM SSFLTSWT	1/4" Stainless Steel liquid level switch. Mounts vertically. Normally open or normally closed contact.

Digital 316 Stainless Steel Pressure Gauge

For use with ICS 3364A



PART NUMBER	DESCRIPTION
IFM PN2694	1/4 NPT 0-145 psi pressure sensor.
IFM PN2696	1/4 NPT 0-36 psi pressure sensor for water tanks.

ICS High Float Assembly



PART NUMBER	DESCRIPTION
ICS HI-FLT-ASY	High level floats assembly for ICS 3383A and ICS 3364A.

TEMPERATURE PROBES

IFM Digital 316 Stainless Steel Temperature Gauge

Monitor tank temperature locally and remotely. Has a standard stem length and a 1/4" NPT process connection. Produces 4-20 mA output.



PART NUMBER	DESCRIPTION
IFM TN2333	Compact 316 temperature gauge with rotatable housing. IP66 enclosure rating. Measure temperatures up to 302°F.

Pryomation Digital 316 Stainless Steel Temperature Gauge

Monitor tank temperature digitally remotely. Produces 4-20 mA output.



PART NUMBER	DESCRIPTION
PYR 4TEMP-1/2	316 stainless steel 4" digital thermocouple and 1/2" thermowell.

Dial Thermometer

Tank dial thermometer with a 3" dial face reading. Has a standard stem length and a 1/2" NPT back connection. Reads 0° to 240° F or -17° to 110° C.



PART NUMBER	DESCRIPTION
WES 4S-20-240	4" stem length

TANK ACCESS

MANWAYS

With Fill Opening

Quick opening non-pressure manway with 10" fill opening and internal vent, for industrial or agricultural tanks.



PART NUMBER	DESCRIPTION	SIZE	MATERIAL
CBM 2097-16-SS	Access manway with 10" flip lid	16"	304 Stainless Steel
CBM 2097-16-CS	Access manway with 10" flip lid	16"	Carbon Steel
CBM 2097-16-AL	Access manway with 10" flip lid	16"	Aluminum
CBM 2097-20-SS	Access manway with 10" flip lid	20"	304 Stainless Steel
CBM 2097-20-AL	Access manway with 10" flip lid	20"	Aluminum

Without Fill Opening

Inexpensive, lightweight non-pressure manway for where a fill opening is not required.



PART NUMBER	DESCRIPTION	SIZE	MATERIAL
CBM 109-16-SS	Access manway	16"	304 Stainless Steel
CBM 109-20-SS	Access manway	20"	304 Stainless Steel

BULKHEAD FITTINGS

304 Stainless Steel Bungs with FKM Gaskets for Polypropylene Tanks

Connect fittings to poly tanks.



PART NUMBER	DESCRIPTION	BOLT CENTERS	OUTER DIAMETER
MEI 2SSBUNG-XB	2" NPT	3 3/4"	5"
MEI 3SSBUNG-HV	3" NPT	4 7/8"	6 1/4"
MEI 4SSBUNG-HV	4" NPT	5 7/8"	7 1/4"

Replacement 304 Stainless Steel Bung Gaskets



PART NUMBER	DESCRIPTION
MEI 2SSBUNGVGTG	2" FKM gasket
MEI 3SSBUNGVGTG	3" FKM gasket
MEI 4SSBUNGVGTG	4" FKM gasket

Polypropylene Double-Tap Bungs with EPDM Gaskets

Connect fittings to nurse tanks and smaller applicator equipment. Two-piece design is for easy installation.



PART NUMBER	DESCRIPTION	HOLE NEEDED	OUTER DIAMETER
MEI 11/2BUNG	3/4" FNPT	2"	3 1/2"
MEI 11/4BUNG	1" FNP	2 1/4"	3 1/2"
MEI 1BUNG	1 1/4" FNPT	2 1/4"	3 1/2"
MEI 2BUNG	1 1/2" FNPT	2 1/4"	3 1/2"
MEI 3/4BUNG	2" FNPT	2 3/4"	4"
MEI 3BUNG	3" FNPT	4 1/4"	6"



SYSTEM COMPONENTS - BULK TANK ACCESSORIES

OTHER TANK ACCESSORIES

SYSTEM COMPONENTS - BULK TANK ACCESSORIES

VENTS

Conservation Vent

Reduces evaporation of product and allows for storage tanks to 'breathe' during filling and discharge.



PART NUMBER	DESCRIPTION
MOR 148ALT1	1" Morrison Conservation Vent. Vents only when there is 1lb of pressure or 1oz of vacuum. For use with stationary tanks.
MOR 148ALT2	2" Morrison Conservation Vent. Vents only when there is 1lb of pressure or 1oz of vacuum. For use with stationary tanks

Vent Baffle

Reduces possibility of product splashing through the vent nipple into the pressure/vacuum vent.



PART NUMBER	DESCRIPTION
ASY MOR00006	2" x 6" vent baffle.

TANK RECIRCULATION - EDUCTORS

Mix liquids in open or enclosed tanks. Eductors are normally located low on the tank inside wall to remain immersed. They produce a mixing action with the liquid being pumped and normal 4:1 recirculation.

Polypropylene Tank Eductors



PART NUMBER	DESCRIPTION
PEN 3/4POLY	¾" MNPT polypropylene eductor
PEN 1 1/2POLY	1 ½" MNPT polypropylene eductor
PEN 1POLY	1" MNPT polypropylene eductor

Cast Iron Tank Eductors



PART NUMBER	DESCRIPTION
PEN 2CI	2" FNPT cast iron eductor

SUMP PUMPS

Sump Pumps

Pump water collected in dike areas into holding tanks for cleaning, disposal, and/or application.



PART NUMBER	PUMP	DISCHARGE	FLOW RATE	HEAD FEET	HORSE POWER/ PHASE
EBR EPPD-3	EBARA EPPD-3 Poly Pump	1 ¼" FNPT	Up to 40 GPM	Up to 16'	½ HP, 1 Phase
GPC AP-12	Grundfos 96847166 Unilift AP-12 Stainless Steel Pump	1 ½" FNPT	Up to 72 GPM	Up to 22'	½ HP, 1 Phase

MINI-BULK TANKS

U.N. Certification for Packing Groups 2 & 3

STACKABLE

Elkhart TUFF Stack® IBC Tanks (Top or Bottom Withdrawal)

These all-poly mini-bulk tanks offer 4-way forklift and 2-way pallet jack access. These tanks come with a GEM cap for pump mounting and feature a standard 2" male camlock bottom drain.



PART NUMBER	DESCRIPTION	DIMENSIONS	TARE WEIGHT
ELK 220SQ-2B	120 Gallon	45L x 45W x 36H	185lbs
ELK TUFFSTK120	220 Gallons	45L x 45W x 48H	215lbs

STEEL CAGED

Mauser IBC (Top or Bottom Withdrawal)

These HDPE Poly tank feature a rugged tubular steel cage on a sloped, 4-way entry polyethylene pallet. Bottom discharge is available through polypropylene ball valve. Top withdrawal is available through a 6" fill opening with pressure/vacuum vent.



PART NUMBER	DESCRIPTION	DIMENSIONS	TARE WEIGHT
HOV SM275-WV	275 Gallons	47L x 39W x 46H	132.5lbs

SYSTEM COMPONENTS -
MINI-BULK TANKS

Pump & Meter Systems

Check out the Crop Protection Handling Equipment section on page 31 for a MEI's field-proven pump and meter stands.

MINI-BULK TANK FITTINGS



SYSTEM COMPONENTS - MINI-BULK TANK FITTINGS

TANK FILL ADAPTERS/DRYBREAK COUPLERS

MEI offers a full array of couplers and adapters for filling and extraction. Below are the most commonly requested units.

Parker Drybreaks - Stainless Steel



PART NUMBER	DESCRIPTION
PHC 2SSCOUPLER	2" 303 Stainless Steel Female Drybreak Coupler with FNPT
PHC 2SSNIP-BUT	2" 303 Stainless Steel Male Drybreak Adapter with 2" Male Buttress Thread
PHC 2SSNIP-NPT	2" 303 Stainless Steel Male Drybreak Adapter with 2" MNPT
PHC 2SSNIP-DC	Drybreak Stainless Steel 2" Adapter Dust Cap

Parker Drybreaks - Polypropylene



PART NUMBER	DESCRIPTION
PHC PF-1001	1" Female poly Drybreak Coupler
PHC PF-1002	1" Male poly Drybreak Coupler

Dixon Stainless Steel Drybreaks



PART NUMBER	DESCRIPTION
DIX DB200SS-C	2" Stainless steel Drybreak coupler
DIX DB200SS-A	2" Stainless steel Drybreak adaptor

OPW Kamvalock Drybreak



PART NUMBER	DESCRIPTION
OPW 1672ANSS20	OPW 1672 2" NPT 316 Stainless Steel Male Kamvalok Adapter with FKM seals
OPW 1772DL20SS	OPW 1772 2" NPT 316 Stainless Steel Female Kamvalok Coupler with FKM seals
OPW 1672ANSS30	OPW 1672 3" NPT 316 Stainless Steel Male Kamvalok Adapter with FKM seals
OPW 1772DL30SS	OPW 1772 3" NPT 316 Stainless Steel Female Kamvalok Coupler with FKM seals

Micro Matic RSV Couplers & Extract Valves - Diesel Exhaust Fluid



PART NUMBER	DESCRIPTION
MMG 744-026	4-pin RSV vapor recovery fill head coupler for filling containers through RSV. 1" NPT liquid inlet, 1/4" FNPT vapor recovery outlet. FKM seals
MMG 744-048	4-pin RSV basic dispense coupler. Horizontal with 3/4" barbed outlet. FKM seals
MMG 743-097	4-pin RSV 2.5"x5 buttress thread container extractor valve. EPDM seals
MMG 743-016	4-pin RSV 2" BSP thread container extractor valve. FKM seals
MMG 2682	4-pin RPV extractor polypropylene buttress

Micro Matic RSV Couplers & Extract Valves - Chemicals



PART NUMBER	DESCRIPTION
MMG 744-003	3-pin RSV basic dispense coupler. 1" BSPP Female liquid outlet. Self venting. FKM seals
MMG 743-087	3-pin RSV 2"x5 buttress thread container extractor valve. FKM seals

MINI-BULK TANK FITTINGS (CONT.)

SPIGOT

Spigots

Drum bottom withdrawal spigots.



PART NUMBER	DESCRIPTION
W/D COM4449	¾" NPT spigot, polypropylene
TCF SP-1	1" NPT spigot, polypropylene

CAPS

Micro Matic RSV Caps

Mini-bulk caps to create a closed system.



PART NUMBER	DESCRIPTION
MMG 749-326	Blue 6" 275/330 gallon tote/IBC cap/lid with one 2" buttress opening

Vents Buttress and Vents

General use mini-bulk fittings.



PART NUMBER	DESCRIPTION
TCF NE-VENT	2" NPT plug with ¾" manual vent
TCF VENT-B1	2" Buttress plug with vent
BAN TA283	2" Buttress x 2" male NPT

TOOLS

Bung Wrench



PART NUMBER	DESCRIPTION
NSP W-169	Bung Wrench
MMG 754-001	Micro Matic EPV install/removal tool
MMG 2682	4- pin RSV 2" buttress extractor valve. Polypropylene/EPDM seals
MMG 741-084	RSV extractor valve install/removal tool - for use by installers only

DOWN TUBE ASSEMBLIES

Micro Matic

For use with Micro Matic couplers and adapters.



PART NUMBER	DESCRIPTION
MMG 7432361065	RSV down tube assembly for center mount 275 gallon tote/IBC with bellows on top
MMG 7432031155	RSV down tube assembly for top edge mount 330 gallon tote/IBC with bellows on bottom

Other Down Tube

For use with mini-bulk pumps with 1" NPT connections.



PART NUMBER	DESCRIPTION
SCI XTUBE-E	1" FNPT adjustable suction tube

CHECK VALVES

SYSTEM COMPONENTS - VALVES

316 STAINLESS STEEL

316 SS Center Line® Wafer Style Check Valve

316 Stainless steel wafer style check valve. Iron body, EPDM liner, and 316 stainless steel disc shaft

Opening Pressure: 1 PSI

Operating Pressure: 150 PSI



PART NUMBER	DESCRIPTION
CLV 2CVSS	2" Flanged
CLV 3CVSS	3" Flanged
CLV 4CVSS	4" Flanged
CLV 6CVSS	6" Flanged
CLV 8CVSS	8" Flanged
CLV 10CVSS	10" Flanged

316 SS Check-All Poppet Check Valve

316 Stainless steel poppet check valves with either FKM or EPDM seat.

Opening Pressure: ½ PSI

Operating Pressure: 150 PSI



PART NUMBER	DESCRIPTION
CKA CON100SS-V	1" 316 SS check valve with FKM to metal seat MNPT x MNPT Opening Pressure: ½ PSI Operating Pressure: 150 PSI
CKA CON100S3.5	1" 316 SS check valve with EPDM to metal seat M/M NPT Opening Pressure: 3.5 PSI Operating Pressure: 150 PSI

304 STAINLESS STEEL

304 SS Inline Poppet Check Valve

304 Stainless steel poppet check valve with FKM O-ring seat.

Opening Pressure: ½ PSI

Operating Pressure: 150 PSI



PART NUMBER	DESCRIPTION
INL CVSE50	½" FNPT
INL CVSE75	¾" FNPT
INL CVSE100	1" FNPT
INL CVSE125	1 ¼" FNPT
INL CVSE150	1 ½" FNPT
INL CVSE200	2" FNPT
INL CVSE300	3" FNPT
INL CVSE400	4" FNPT

304 SS Hamilton Poppet Check Valve

304 Stainless steel poppet check valve with FKM O-ring seat.

Opening Pressure: 3 PSI

Operating Pressure: 150 PSI



PART NUMBER	DESCRIPTION
HAM 3/8	¾" FNPT
HAM 3/4	¾" FNPT

PVC

PVC Poppet Check Valve

PVC poppet check valve with EPDM O-ring seat.

Opening Pressure: ½ PSI

Operating Pressure: 125 PSI



PART NUMBER	DESCRIPTION
FLC 1001-15	1 ½" FNPT
FLC 1002-202	2" FNPT

PVC Swing Check Valve

PVC swing check valve with Nitrile rubber swing flapper.

Opening Pressure: ½ PSI

Operating Pressure: 125 PSI



PART NUMBER	DESCRIPTION
FLC 1520-20	2" Slip
FLC 1520-30	3" Slip
FLC 1520-40	4" Slip

DELTRIN®

Delrin® Poppet Check Valve

Delrin® poppet check valve with FKM O-Ring seat.

Opening Pressure: ½ PSI

Operating Pressure: 125 PSI



PART NUMBER	DESCRIPTION
BRD 3/4	¾" FNPT
BRD 1	1" FNPT

BALL VALVES



SYSTEM COMPONENTS - VALVES

STAINLESS STEEL - THREADED

Inline 316 Stainless Steel Threaded Ball Valves

316 Stainless steel ball valves with locking handle. PTFE seats and stem seals. Full port.

Operating Pressure: 1000 PSI



PART NUMBER	DESCRIPTION
INL 1/4SSLL	¼" FNPT
INL 3/8SSLL	⅜" FNPT
INL 1/2SSLL	½" FNPT
INL 3/4SSLL	¾" FNPT
INL 1SSLL	1" FNPT
INL 1 1/4SSLL	1 ¼" FNPT
INL 1 1/2SSLL	1 ½" FNPT
INL 2SSLL	2" FNPT
INL 3SSLL	3" FNPT

Inline 316 Stainless Steel Threaded Ball Valves - 3 Piece

316 Stainless steel 3-piece ball valves with locking handle. PTFE seats and stem seals. Full port.

Operating Pressure: 1000 PSI



PART NUMBER	DESCRIPTION
INL SSFP2LL-3S	2" Weld Ends
INL SSFP3LL-3	3" FNPT

Inline 316 Stainless Steel Threaded Ball Valves - Spring Return

316 Stainless steel ball valve with spring return handle, PTFE seats. Full port.

Operating Pressure: 1000 PSI



PART NUMBER	DESCRIPTION
INL DEAD1/2-L	½" FNPT
INL DEAD3/4-L	¾" FNPT
INL DEADMAN1-L	1" FNPT

*** Recommended for all Sight Gauge Hose Applications ***

STAINLESS STEEL - FLANGED

Inline 316 Stainless Steel Flanged Ball Valves

316 Stainless steel ball valves with PTFE seats. Full port.

Operating Pressure: 275 PSI



PART NUMBER	DESCRIPTION
INL 209F-1 1/2"	1 ½" Flanged
INL 209F-2"	2" Flanged
INL 209F-3"	3" Flanged
INL 209F-4"	4" Flanged
INL 209F-6	6" Flanged

Inline 316 Stainless Steel Ball Valves with Direct Mounting Pad - 2 Piece

316 Stainless steel 2-Piece ball valve with direct mounting pad for either pneumatic or electrical actuators. Comes with handle, PTFE seats, and stem seals. Full port.

Operating Pressure: 1000 PSI



PART NUMBER	DESCRIPTION
INL 204F-1/2"	½" FNPT
INL 204F-1"	1" FNPT
INL 204F-1 1/2"	1 ½" FNPT
INL 204F-2"	2" FNPT

BALL VALVES (CONT.)

POLYPROPYLENE

Full Port Poly Ball Valves

Polypropylene ball valves with FKM O-ring seat. Full port
Operating Pressure: 125 PSI



PART NUMBER	DESCRIPTION
BAN V050	½" FNPT, 4 Bolts
BAN V075	¾" FNPT, 4 Bolts
BAN V100FP	1" FNPT, 4 Bolts
BAN V150	1 ½" FNPT, 4 Bolts
BAN V200FP	2" FNPT, 6 Bolts
BAN V300FP	3" FNPT, 6 Bolts

Standard Port Poly Ball Valves

Polypropylene ball valves with FKM O-ring seat. Standard port.
Operating Pressure: 125 PSI



PART NUMBER	DESCRIPTION
BAN V100	1" FNPT, 4 Bolts
BAN V125	1 ¼" FNPT, 4 Bolts
BAN V200	2" FNPT, 4 Bolts
BAN V300	3" FNPT, 6 Bolts
BAN V400	4" FNPT, 6 Bolts

BANJO VALVE HANDLES

Banjo Ball Valve Handle



PART NUMBER	DESCRIPTION
BAN V25153	Full port valve handle for 2" - 4"
BAN V20153	Straight handle 1 1/2" & 2" valve

Valve Carrying Handles



PART NUMBER	DESCRIPTION
ASY HDL00202	2" Banjo valve carry handle
ASY HDL00203	3" Banjo valve carry handle



SYSTEM COMPONENTS - VALVES

Don't See What You Need?

MEI carries the full Banjo parts catalog. This means we can source your needed part.

SPECIALTY BALL VALVES

NOZZLE BALL VALVES

90° Full Port Polypropylene Nozzle Ball Valves

High flow bulk chemical and fertilizer dispensing nozzles.



PART NUMBER	DESCRIPTION
BAN VA150FP	1 ½" FNPT Polypropylene Full Port Valve with 90° Nozzle Outlet and Tube
BAN VA200FP	2" FNPT Polypropylene Full Port Valve with 90° Nozzle Outlet and Tube

90° Standard Port Polypropylene Nozzle Ball Valves

Standard flow bulk chemical and fertilizer dispensing nozzles.



PART NUMBER	DESCRIPTION
BAN VA200/150	2" FNPT Polypropylene standard port valve with 90° 1 ½" nozzle outlet and tube
BAN VA200	2" FNPT Polypropylene standard port valve with 90° 2" nozzle outlet and tube

45° Full Port Polypropylene Nozzle Ball Valve

High flow mini-bulk chemical and fertilizer dispensing nozzles.



PART NUMBER	DESCRIPTION
BAN VA100	1" FNPT Polypropylene Full Port Valve with 45° Nozzle Outlet
BAN V10161	1" Polypropylene Nozzle Replacement

POLY MANIFOLD BALL VALVES

Bottom Load 3-Way Polypropylene Ball Valves



PART NUMBER	DESCRIPTION
BAN MV220BL	2" Full Port 3-Way Bottom Load Manifold Valve
BAN MV200BL	2" 3-Way Bottom Load Manifold Valve

Side Load 3-Way Polypropylene Ball Valves



PART NUMBER	DESCRIPTION
BAN MV200SL	2" 3-Way Side Load Manifold Valve
BAN MV220SL	2" 3-Way Side Load Full Port Manifold Valve

POLY DRY-MATE VALVES

Polypropylene Dry-Mates



PART NUMBER	DESCRIPTION
BAN DM150A	½" Poly Dry-Mate Male X FPT NPT with FKM Seals
BAN DM150D	1½" Poly Dry-Mate Female X FPT NPT with FKM Seals
BAN DM200A	2" Poly Dry-Mate Male X FPT NPT with FKM Seals
BAN DM200D	2" Poly Dry-Mate Female X FPT NPT with FKM Seals

BUTTERFLY VALVES

BUTTERFLY VALVES

Center Line® Butterfly Valves

Cast iron body, 316 Stainless Steel disc, 316 Stainless Steel shaft, and EPDM seat. (PTFE & FKM seats available upon request.)

Operating Pressure: 150 PSI



PART NUMBER	DESCRIPTION
CLV 2VALVE-B	2" resilient seated butterfly valve
CLV 3VALVE-B	3" resilient seated butterfly valve
CLV 4VALVE-B	4" resilient seated butterfly valve
CLV 5VALVE-B	5" resilient seated butterfly valve
CLV 6VALVE-B	6" resilient seated butterfly valve
CLV 8VALVE-B	8" resilient seated butterfly valve
CLV 10VALVE-B	10" resilient seated butterfly valve
CLV 12VALVE-B	12" resilient seated butterfly valve
CLV 16VALVE-B	16" resilient seated butterfly valve

Center Line® Butterfly Lug Valves

Cast iron body, 316 Stainless Steel disc, 316 Stainless Steel shaft, and EPDM seat. (PTFE & FKM seats available upon request.)

Operating Pressure: 200 PSI



PART NUMBER	DESCRIPTION
CLV 2VALVE-LUG	2" resilient seated butterfly lug valve
CLV 3VALVE-LUG	3" resilient seated butterfly lug valve
CLV 4VALVE-LUG	4" resilient seated butterfly lug valve
CLV 6VALVE-LUG	6" resilient seated butterfly lug valve
CLV 8VALVE-LUG	8" resilient seated butterfly lug valve
CLV 16VALVELUG	16" resilient seated butterfly lug valve

HANDLES

Locking Handles for Center Line® Butterfly Valves (Standard Handles Available)

Allow for locking with a padlock. Both standard and locking handles 'lock' in place.



PART NUMBER	DESCRIPTION
CLV 2-3LKHANDL	For 2" and 3" valves
CLV 4LKHANDLE	For 4" valves
CLV 6LKHANDLE	For 6" valves
CLV 8LKHANDLE	For 8" valves
CLV 10LKHANDLE	For 10" valves

None-Locking Handles for Center Line® Butterfly Valves (Standard Handles Available)



PART NUMBER	DESCRIPTION
CLV 4STDHANDLE	For 2" & 3" valves
CLV 6STDHANDLE	For 4" valves
CLV 2/3STDHNDL	For 5" & 6" valves
CLV 8STDHANDLE	For 8" valves

GATE VALVES

HEAVY DUTY GATE VALVES

Cast Steel with CR13 Trim Gate Valves

Cast steel with CR13 trim gate valves for large capacity storage tanks. Meets API 653 standards. CR13 trim comprises Stainless Steel rising stem and seat.

Operating Pressure: 150 PSI



PART NUMBER	DESCRIPTION
ALY 3CSGATE	3" ANSI Flanged Cast Steel gate valve
ALY 4CSGATE	4" ANSI Flanged Cast Steel gate valve
ALY 6CSGATE	6" ANSI Flanged Cast Steel gate valve
ALY 8CSGATE	8" ANSI Flanged Cast Steel gate valve

Stainless Steel Gate Valves

304 stainless steel gate valves for large capacity storage tanks. Meets API 653 Standards.

Operating Pressure: 150 PSI



PART NUMBER	DESCRIPTION
ALY 3SSGATE	3" ANSI Flanged 304 Stainless Steel gate valve
ALY 4SSGATE	4" ANSI Flanged 304 Stainless Steel gate valve
ALY 6SSGATE	6" ANSI Flanged 304 Stainless Steel gate valve
ALY 8SSGATE	8" ANSI Flanged 304 Stainless Steel gate valve



SYSTEM COMPONENTS - VALVES

FACILITY LAYOUT AND DESIGN

Wanting to build a new fertilizer manufacturing facility, agri-chemical retail facility, and/or tank farm? MEI has a team of expert engineers on staff who have helped agri-businesses across North America do just that.

Our team understands what it takes to manufacture fertilizer and handle crop chemicals. We are happy to sit down with your team and discuss your goals, requirements, restrictions, and growth plans to design a solution unique to your business and backed by proven technology.



ACTUATED VALVES

SYSTEM COMPONENTS - VALVES

ELECTRIC ACTUATED VALVES

Center Line® Electric Actuated Stainless Steel Butterfly Valves

Spring-return butterfly valve with a 110 volt actuator mounted directly on top of the valve. Cast iron body, 316 stainless steel disc and shaft, and EPDM seat.

Operating Pressure: 150 PSI



PART NUMBER	SIZE	CYCLE TIME
CLV 2ELECTRIC	2"	13 sec
CLV 3ELECTRIC	3"	13 sec
CLV 4ELECTRIC	4"	25 sec
CLV 6ELECTRIC	6"	25 sec
CLV 8ELECTRIC	8"	25 sec

Inline Electric Actuated Stainless Steel Ball Valves

Spring-return Inline stainless steel full port ball valve with a 110 volt actuator mounted directly to valve. 316 stainless steel, ball, stem and PTFE seats and stem seals.

Operating Pressure: 1000 PSI



PART NUMBER	SIZE	CYCLE TIME
INL 3/4SSEA	¾" FNPT	5 sec
INL 1SSEA	1" FNPT	5 sec
INL 1 1/2SSEA	1 ½" FNPT	5 sec
INL 2SSEA	2" FNPT	5 sec

Banjo Electric Actuated Ball Valves

Spring return Banjo full port ball valve with a 12 VDC (24 VDC optional) actuator mounted directly to the top of the valve. 316 stainless steel, ball, stem, poly body, PTFE seats and FKM stem seals.



PART NUMBER	SIZE	CYCLE TIME
BAN EVX101	1" FNPT 12 VDC	Fast Acting
BAN EVX151	1 ½" FNPT 12 VDC	Fast Acting
BAN EVX221	2" FNPT 12 VDC	Fast Acting
BAN EVX300	3" FNPT 12 VDC	Fast Acting

ELECTRIC ACTUATORS

Center Line® Electric Actuator

110 Volt electric actuator for mounting on Center Line® Butterfly Valves



PART NUMBER	SIZE	CYCLE TIME
CLV 44005-05A	3"	13 sec
CLV 44200-10A	4"	25 sec
CLV 44300-20A	6"	25 sec

AIR ACTUATED VALVES

Center Line® Air Actuated Stainless Steel Butterfly Valves

Butterfly valve with a dual-acting air actuator mounted directly on top of the valve. Cast iron body, 316 stainless steel disc and shaft, and EPDM seat.

Operating Pressure: 150 PSI



PART NUMBER	SIZE	CYCLE TIME
CLV 2VALVEAA	2" Flanged	Fast acting
CLV 3VALVEAA	3" Flanged	Fast acting
CLV 4VALVEAA	4" Flanged	Fast acting
CLV 6VALVEAA	6" Flanged	Fast acting
CLV 8VALVEAA	8" Flanged	Fast acting

Inline Air Actuated Stainless Steel Ball Valves

Inline stainless steel ball valve with a dual-acting actuator mounted directly to valve. 316 stainless steel body, ball, stem and PTFE seats and stem seals.

Operating Pressure: 1000 PSI



PART NUMBER	SIZE	CYCLE TIME
INL 3/8SSAA	¾" FNPT	Fast acting
INL 3/4SSAA	¾" FNPT	Fast acting
INL 1/2SSAA	½" FNPT	Fast acting
INL 1SSAA	1" FNPT	Fast acting
INL 1 1/2SSAA	1 ½" FNPT	Fast acting
INL 2SSAA	2" FNPT	Fast acting

AIR MANAGEMENT STATIONS

FACILITY AIR COMPONENTS

Air Compressor

Electric-driven two-stage air compressor has the flexibility to provide both intermittent and continuous power.



PART NUMBER	DESCRIPTION
WVE 2340N5V200	Ingersoll Rand 5HP Compressor 3 phase 200 volts, comes with WVE START-UP compressor start-up kit
WVE 2340N5V230	Ingersoll Rand 5HP Compressor 3 phase 230 volts, comes with WVE START-UP compressor start-up kit
WVE 2340N5V460	Ingersoll Rand 5HP Compressor 3 phase 460 volts, comes with WVE START-UP compressor start-up kit

Air Compressor Start Up Kit



PART NUMBER	DESCRIPTION
WVE START-UP	The compressor startup kit contains 2 ingersoll Rand 28 oz bottles of synthetic extended life oil and 1 Ingersoll Rand air compressor filter.

Refrigerated Dryer

Energy efficient non-cycling dryer, must be used in applications where the temperature is above freezing.



PART NUMBER	DESCRIPTION
AIR RD0025-25	½" connection refrigerated dryer 25SCFM, max temp 130° Fahrenheit.



SYSTEM COMPONENTS - VALVES

CONTROL VALVES & ACCESSORIES

FESTO AIR CONTROL ACCESSORIES

Festo Control Valves

Quickly move liquid product throughout your facility. Festo control valves give you the ability to automatically open and close valves to move liquid from one place to another. They can be used with other ICS controls or integrated with 3rd Party products.



PART NUMBER	DESCRIPTION
FES 576516	110 volt electric single valve replacement
FES 4VTUS-110V	110 volt electric 4 station manifold system
FES 6VTUS-110V	110 volt electric 6 station manifold system
FES 8VTUS-110V	110 volt electric 8 station manifold system
FES 10VTUS-110	110 volt electric 10 station manifold system
FES 12VTUS-110	110 volt electric 12 station manifold system

BOSCH AIR CONTROL ACCESSORIES

Bosch Electric Air Control Valve

Direct air pressure to air actuated process valves from a remote location with this electric-over-air control valve.



PART NUMBER	DESCRIPTION
BRV 0820038119	110 Volt Bosch control valve

HUMPHREY AIR CONTROL ACCESSORIES

Humphrey Electric Air Control Valve

Direct air pressure to air actuated process valves from a remote location with this electric-over-air control valve.



PART NUMBER	DESCRIPTION
HUM M410-70	110 Volt Humphrey adjustable control valve

Air Actuation Control Panels

Check out page 4 to see MEI's controls to work in conjunction with your valves to quickly move liquid through your facility.

SYSTEM COMPONENTS - VALVES

CONTROL VALVES & ACCESSORIES (CONT.)

MAC AIR CONTROL VALVES & ACCESSORIES

Electric Air Control Valve

Direct air pressure to air actuated process valves from a remote location with this electric-over-air control valve.



PART NUMBER	DESCRIPTION
NEF MAC-ELECT	110 Volt electric air control valve for MAC Air Valve Manifold

Manual Air Control Valves

Direct air pressure to air actuated process valves from a remote location with this manual air control valve.



PART NUMBER	DESCRIPTION
NEF MACVALVE	Manual air control valve for MAC Air Valve Manifold
NEF CO42503	Manual throttling valve for NEF MACVALVE

Manifolds

If your system requires numerous air actuated valves, MAC air control valves can be manifolded together, simplifying pneumatic connections.



PART NUMBER	DESCRIPTION
NEF MANIFOLD10	MAC Air Valve Manifold for 10 Valves
NEF MANIFOLD15	MAC Air Valve Manifold for 15 Valves
NEF MANIFOLD20	MAC Air Valve Manifold for 20 Valves

Replacement Parts

Additional fittings for the MAC Manifold



PART NUMBER	DESCRIPTION
NEF 17113-01	Nitrile O-rings to seal the connection of the MAC valves
NEF 35249	Mounting bolt to secure valves to manifold
NEF M-08008	Blanking plate to block off extra manifold openings

SYSTEM COMPONENTS - VALVES

CONTROL VALVES & ACCESSORIES (CONT.)

SYSTEM COMPONENTS - VALVES

CONTROL FILTERS AND REGULATORS

RTi Eliminator®



PART NUMBER	DESCRIPTION
RTI ELIMINIZER	¼" FNPT Air filter and water separator with auto drain and bracket. Removes water and dirt to 1 micron.
RTI 3P020P02FI	¼" Eliminator® filter dryer.
AIR 1/4RTISYST	RTi Eliminator® with ¼" air regulator, ¼" stainless steel valve, and air connection fittings.

Filter-Regulator-Lubricator Kits

Filter/Regulator/Lubricator. Includes 40 micron filter, pressure gauge, and lubricator.



PART NUMBER	DESCRIPTION
AIR 1/4FRL-WLK	¼" FNPT and lubricator includes adjustable drip control
AIR 3/8FRL-WLK	⅜" FNPT and lubricator includes adjustable drip control
AIR 1/2FRL-WLK	½" FNPT and lubricator includes adjustable drip control

Air Regulator



PART NUMBER	DESCRIPTION
WLK R18-02F000	¼" Air regulator 5-125 psi
WLK R18-03F000	⅜" Air regulator 5-125 psi
WLK R18-04F000	½" Air regulator 5-125 psi

AIR TUBING

Single Air Tubing



PART NUMBER	DESCRIPTION
AIR TUBINGX500	⅝ ³² " Tubing per foot
AIR 1/4TUBINGB	¼" Tubing per foot
AIR 3/8TUBINGB	⅜" Tubing per foot
AIR 1/2TUBINGB	½" Tubing per foot

Double Air Tubing



PART NUMBER	DESCRIPTION
AIR 2MP14-1000	¼" x 1000' Roll of Double Air Tubing
AIR 2MP14-500	¼" x 500' Roll of Double Air Tubing

CONTROL VALVES & ACCESSORIES (CONT.)

AIR LINE FITTINGS

These fittings are made of food-grad acetal tubing and offer tight connections, easy no tool assembly, and easy disassembly.

NPT Coupler



PART NUMBER	DESCRIPTION
AIR MC53218	1/8" NPT x 5/32" Tube Coupler
AIR MC14018	1/8" NPT x 1/4" Tube Coupler
AIR MC53214	1/4" NPT x 5/32" Tube Coupler
AIR MC14014	1/4" NPT x 1/4" Tube Coupler
AIR MC38014	1/4" NPT x 3/8" Tube Coupler
AIR MC14038	3/8" NPT x 1/4" Tube Coupler
AIR MC38038	3/8" NPT x 3/8" Tube Coupler
AIR MC12038	3/8" NPT x 1/2" Tube Coupler
AIR MC12012	1/2" NPT x 1/2" Tube Coupler

NPT 90° Elbow Coupler



PART NUMBER	DESCRIPTION
AIR ME14018	1/8" NPT x 1/4" Tube Coupler 90° Elbow
AIR ME14014	1/4" NPT x 1/4" Tube Coupler 90° Elbow
AIR ME38014	1/4" NPT x 3/8" Tube Coupler 90° Elbow
AIR ME38038	3/8" NPT x 3/8" Tube Coupler 90° Elbow

NPT Tube



PART NUMBER	DESCRIPTION
AIR MT53218	1/8" NPT x 5/32" Tube
AIR MT14018	1/8" NPT x 1/4" Tube
AIR MT53214	1/4" NPT x 5/32" Tube
AIR MT14014	1/4" NPT x 1/4" Tube
AIR MT38014	3/8" NPT x 1/4" Tube
AIR MT12038	1/2" NPT x 3/8" Tube
AIR MT12012	1/2" NPT x 1/2" Tube

FPT Coupler



PART NUMBER	DESCRIPTION
AIR FC14014	1/4" FPT x 1/4" Tube Coupler

Union Tube Coupler



PART NUMBER	DESCRIPTION
AIR TRC380140	Female stem 3/8" FNPT and x 1/4" coupler
AIR TRC120380	Female stem 1/2" FNPT and x 1/4" coupler

Union Coupler



PART NUMBER	DESCRIPTION
AIR UC532	5/32" Tube Coupler x 5/32" Tube Coupler
AIR UC140	1/4" Tube Coupler x 1/4" Tube Coupler
AIR UC380	3/8" Tube Coupler x 3/8" Tube Coupler
AIR UC120	1/2" Tube Coupler x 1/2" Tube Coupler



CONTROL VALVES & ACCESSORIES (CONT.)

AIR LINE FITTINGS (CONT.)

Tube 90° Elbow Coupler



PART NUMBER	DESCRIPTION
AIR TEC14014	¼" Stem x ¼" Tube Elbow
AIR TEC380380	⅜" Stem x ⅜" Tube Elbow

Union 90° Elbow Coupler



PART NUMBER	DESCRIPTION
AIR ULC532	⅝" Tube Coupler x ⅝" Tube Coupler 90° Elbow
AIR ULC140	¼" Tube Coupler x ¼" Tube Coupler 90° Elbow
AIR ULC380	⅜" Tube Coupler x ⅜" Tube Coupler 90° Elbow
AIR ULC120	½" Tube Coupler x ½" Tube Coupler 90° Elbow

Union Tee Coupler



PART NUMBER	DESCRIPTION
AIR UTC532	⅝" Tube Coupler x ⅝" Tube Coupler Tee
AIR UTC140	¼" Tube Coupler x ¼" Tube Coupler Tee
AIR UTC380	⅜" Tube Coupler x ⅜" Tube Coupler Tee
AIR UTC120	½" Tube Coupler x ½" Tube Coupler Tee

Coupler Plug



PART NUMBER	DESCRIPTION
AIR TP532	Plug for ⅝" Tube Coupler
AIR TP140	Plug for ¼" Tube Coupler
AIR TP380	Plug for ⅜" Tube Coupler
AIR TP120	Plug for ½" Tube Coupler

Tube Bulkhead Union



PART NUMBER	DESCRIPTION
AIR BUC140140	¼" NPT x ¼" Tube

Tube Adjuster



PART NUMBER	DESCRIPTION
AIR 1/4ADJUST	¼" NPT x ¼" Tube Air Flow Adjuster
AIR 1/4ADJ-UN	¼" Union Air Flow Adjuster

LOADING SYSTEMS - SWIVEL JOINTS

OPW 3800 SERIES

Style 20 – Straight Single Rotation Plane

Ductile iron swivel joint with nitrile seals.



PART NUMBER	DESCRIPTION
OPW 3820-2	2" FNPT
OPW 3820-3	3" FNPT
OPW 3820-4	4" FNPT

Style 30 – 90° Single Rotation Plane

Ductile iron swivel joint with nitrile seals.



PART NUMBER	DESCRIPTION
OPW 3830-2	2" FNPT
OPW 3830-3	3" FNPT
OPW 3830-4	4" FNPT

Style 40 – 180° Single Rotation Plane

Ductile iron swivel joint with nitrile seals.



PART NUMBER	DESCRIPTION
OPW 3840-2	2" FNPT
OPW 3840-3	3" FNPT
OPW 3840-4	4" FNPT

Style 50 – 180° 2 Rotation Planes

Ductile iron swivel joint with nitrile seals.



PART NUMBER	DESCRIPTION
OPW 3850-3	3" FNPT

Style 60 – 90° 2 Rotation Planes

Ductile iron swivel joint with nitrile seals.



PART NUMBER	DESCRIPTION
OPW 3860-3	3" FNPT

SWIVEL JOINT REPAIR

OPW Repair Parts



PART NUMBER	DESCRIPTION
OPW QUADRING3	Quad ring for OPW 3" swivel
OPW QUADRING4	Quad ring for OPW 4" swivel
OPW 788L	Lock down for right hand
OPW 788LLH	Lock down for left hand

Swivel Packing Nitrile Kit



PART NUMBER	DESCRIPTION
OPW 3001K-2	2" swivel packing-nitrile kit
OPW 3001K-4	2 1/2" & 3" swivel packing-nitrile
OPW 3001K-3	4" swivel packing kit FKM

LOADING SYSTEMS - TRUCK & RAIL CAR

TRUCK - OVERHEAD LOADOUT

Telescoping Loadout System

This telescoping loadout system connects to overhead loadout plumbing. It telescopes from 5' 5" to 13' 11". It is designed to adapt to many different loading positions.



PART NUMBER	DESCRIPTION
MLS 430-4	4" Telescoping top feed assembly (5' 5" to 13' 11" telescope)

Overhead Loadout System

Loading swivel with 82" 304 stainless steel loading arm that swivels horizontally and vertically locking in 3 separate positions.



PART NUMBER	DESCRIPTION
OPW 58-3RH	3" Upfeed right-hand assembly
OPW 56-3LH	3" Upfeed left-hand assembly
OPW 56-4LH	4" Upfeed left-hand assembly
OPW 58-4RH	4" Upfeed right-hand assembly

Top feed and bottom feed swivels are available. Call for details.

PREFABRICATION EQUIPMENT

Murray Equipment offers a full line of prefabrication equipment including stairs, platforms, skids, pump bases, frames, stands, hose holders, and more.

See page 19 for more information.



LOADING SYSTEMS - TRUCK & RAIL CAR (CONT.)

RAIL CAR

Tank Car Adapters



PART NUMBER	SIZE	MATERIAL
DIX ATCT30	5" Swivel nut x 3" NPT	Aluminum
DIX ATCT40	5" Swivel nut x 4" NPT	Aluminum
DIX RTCA30	5" Swivel nut x 3" NPT	316 Stainless Steel
DIX RTCA40	5" Swivel nut x 4" Male Camlock	316 Stainless Steel
DIX TCT30	5" Swivel nut x 3" NPT	Ductile Iron
DIX TCT40	5" Swivel nut x 4" NPT	Ductile Iron

Wrench for Tank Car Adapters



PART NUMBER	DESCRIPTION
DIX G10	Wrench for aluminum tank adapters
DIX LHW	Tank car handle/long wrench for stainless steel tank adapters

Tank Car Adapter Gaskets



PART NUMBER	DESCRIPTION
DIX 500GTCABU	5" Nitrile Gasket
DIX G9	Leather washer for tank car

SYSTEM COMPONENTS -
LOADING SYSTEMS



Railcar Unloading

Quickly and efficiently offload railcars. Engage with MEI's In-House Engineering team to optimize your facility's layout and liquid handling capabilities. Call today!

SCALES & SCALE ACCESSORIES

FLOOR SCALES

4' x 4' Rice Lake RoughDeck® Floor Scales

4' x 4' Calibrated 5,000 lbs NTEP-Approved Platform Scale with 480 Indicator. The all stainless steel NEMA 4x/IP66 wash down enclosure ensures longevity in harsh environments. Factory-calibrated, this scale provides easy installation and setup.



PART NUMBER	DESCRIPTION
RLS 155666-1	With a printer
RLS 155666	Without a printer

5' x 5' Rice Lake RoughDeck® Floor Scales

5' x 5' Calibrated 5,000 lbs NTEP-Approved Platform Scale with 480 Indicator. The all stainless steel NEMA 4x/IP66 wash down enclosure ensures longevity in harsh environments. Factory-calibrated, this scale provides easy installation and setup.



PART NUMBER	DESCRIPTION
RLS 76310-1480	With a printer
RLS 76310-480	Without a printer

5' x 7' Rice Lake RoughDeck® Floor Scales

5' x 7' Calibrated 10,000 lbs NTEP-Approved Platform Scale with 480 Indicator. The all Stainless Steel NEMA 4x/IP66 wash down enclosure ensures longevity in harsh environments. Factory-calibrated, this scale provides easy installation and setup.



PART NUMBER	DESCRIPTION
RLS 76310-1480	With a printer
RLS 76310-480	Without a printer

INDICATORS

Rice Lake 480 Indicator

This cost-effective indicator is compatible with Rice Lake scales. It features a extra-large display for convenience and to reduce operator error.



PART NUMBER	DESCRIPTION
RLS 126564	Rice Lake 480 6-Digit LED Scale Indicator

Rice Lake 680 Indicator

This cost-effective indicator is compatible with Rice Lake scales. It features an analog option card, a Universal LED display and an extra-large display for convenience.



PART NUMBER	DESCRIPTION
RLS 195176	Rice Lake 680 6-Digit LED Scale Indicator

PRINTERS

Epson Printers

Print loading tickets with these proven printers.



PART NUMBER	DESCRIPTION
ICS EPSON-SLIP	Epson slip printer for load tickets
ICS EPSON-ROLL	Epson roll printer for load tickets

PRINTER ROLLS & TICKETS

Thermal Roll Paper

Compatibilities: Rice Lake Thermal Roll Printer (RLS 66642)



PART NUMBER	DESCRIPTION
RLS 66653	Thermal paper rolls for roll printers

Carbon Copy Forms

Carbon copy forms for Veeder Root mechanical printers. 200 per pack. 2 ply.



PART NUMBER	DESCRIPTION
TCS 1-310215L	Displays liters
TCS 1-310215	Displays gallons

Pipe Fittings & Accessories

Need replacement parts or additional accessories? Murray keeps the parts you need onhand to ensure you continue to get the most out of your investment.

IN THIS SECTION ►

Pipe	90	Safety Equipment	115
Fittings	91		
Camlocks	98		
Hose	100		
Manifolds	105		
Strainers & Filters	110		

PIPE

*To get part number of fitting: replace *** with desired fitting size. For example, PVC P*** could be PVC P2.



STAINLESS PIPE

*PART NUMBER	MATERIAL	SIZES	LENGTH
S4P IPE ***SCH10	304 Stainless Steel Schedule 10 Pipe	2" - 6"	20'
S4P IPE ***SCH40	304 Stainless Steel Schedule 40 Pipe	2" - 6"	20'
S6P IPE***SCH10	316L Stainless Steel Schedule 10 Pipe	2" - 6"	20'
S6P IPE ***SCH40	316L Stainless Steel Schedule 40 Pipe	2" - 6"	20'

POLYETHYLENE PIPE

*PART NUMBER	MATERIAL	SIZES	LENGTH
PVC ***INPVPIPE	PVC Schedule 80 Pipe	2" - 6"	20'
DPP 1000-***	HDPE SDR11 Pipe	2" - 6"	40'
DPP 6X10DW	HDPE SDR11 Double Wall Pipe	4" x 8" - 8" x 12"	40'



*PART NUMBER	DESCRIPTION
DLM FUSION-4	Machine fuses HDPE SDR11 pipe. Machine includes 2", 3", and 4" dies
DLM FUSION-6	DLM FUSION-4, but also includes 6" dies.

**This is a rental, please call for pricing*

BENEFITS OF HDPE SDR11 PIPE



HDPE SDR11 is the ideal pipe for chemical and fertilizer transfer. This polyethylene pipe is lightweight, flexible, and chemical and abrasion resistant. It will not rust, rot, or corrode. It is resistant to agriculture chemicals and acid. And, it saves greatly in labor costs versus welded steel pipe.

Heat fusion coupling design provides years of leak-free service. Heat fusion produces a fused joint stronger than the pipe itself. The fusion is done with a special machine that can be purchased separately. This design also enables you to easily add new lines or fittings.

To learn more about HDPE SDR11 pipe and the benefits to your specific operations, call us today. (260) 484-0382.

HDPE SDR11 FITTINGS

*To get part number of fitting: replace *** with desired fitting size. For example, DPF L*** could be DPF L2.

90° Elbow – Short Radius



*PART NUMBER	MATERIAL	SIZES
DPF L***	HDPE SDR11	2" - 6"

45° Elbow



*PART NUMBER	MATERIAL	SIZES
DPF L***45	HDPE SDR11	2" - 6"

Tee



*PART NUMBER	MATERIAL	SIZES
DPF T***	HDPE SDR11	2" - 6"

Transition Fitting (Pipe to MNPT)



*PART NUMBER	MATERIAL	SIZES
DPF TF***-SS	HDPE SDR11	2" - 6"

Transition Fitting (Pipe to Hose Barb)



*PART NUMBER	MATERIAL	SIZES
DPF TF***SSHB	HDPE SDR11	2" - 4"

Concentric Reducer



*PART NUMBER	MATERIAL	SIZES
DPF R***	HDPE SDR11	3" x 2" - 6" x 4"

Flange Adapters



*PART NUMBER	MATERIAL	SIZES
DPF FA***	HDPE SDR11	2" - 6"

Iron Backup Ring



*PART NUMBER	MATERIAL	SIZES
DPF BR***	HDPE SDR11	2" - 6"

45 Degree Wye



*PART NUMBER	MATERIAL	SIZES
DPF Y***	HDPE SDR11	3" - 4"

Cross



*PART NUMBER	MATERIAL	SIZES
DPF CROSS***	HDPE SDR11	3" - 4"

Poly Beveled Flange Adaptor



*PART NUMBER	MATERIAL	SIZES
DPF FA***-BEV	HDPE SDR11	4" - 6"

ACCESSORIES -
FITTINGS

DON'T SEE WHAT YOU NEED?



If you don't see what you need, call us.

All material and sizes of fittings are available. If they are made, we can source them.

Call us at (260) 484-0382 with your request, and we'd be happy to supply them to you.

Our catalog lists the most commonly requested fittings that we actively stock on our shelves. However, our full availability of fittings is much more extensive.

METAL THREADED PIPE FITTINGS

*To get part number of fitting: replace *** with desired fitting size. For example, S4L *** could be S4L 2.

**Other sizes available upon request.

90° Elbow



*PART NUMBER	MATERIAL	STOCK SIZES
S4L ***	304 Stainless Steel	¼" - 4"
S6L ***	316 Stainless Steel	¼" - 4"
FSL ***	Forged Steel	¼" - 4"

45° Elbow



*PART NUMBER	MATERIAL	STOCK SIZES
S4L ***X45	304 Stainless Steel	¼" - 4"
S6L ***X45	316 Stainless Steel	¼" - 4"

90° Street Elbow



*PART NUMBER	MATERIAL	STOCK SIZES
S4L S***	304 Stainless Steel	¼" - 4"
S6L S***	316 Stainless Steel	¼" - 4"

Tee



*PART NUMBER	MATERIAL	STOCK SIZES
S4T ***	304 Stainless Steel	¼" - 4"
S6T ***	316 Stainless Steel	¼" - 4"
FST ***	Forged Steel	1"

Coupling



*PART NUMBER	MATERIAL	STOCK SIZES
S4C ***	304 Stainless Steel	1/8" - 4"
S6C ***	316 Stainless Steel	1/8" - 4"
S4C ***HALF	304 Stainless Steel	1½" - 4"
S6C ***HALF	316 Stainless Steel	2" - 4"
FSC ***	Forged Steel	1" & 1¼"
ALC ***	Aluminum	¼" - 4"

Forged steel fittings rated at 2000 PSI, all others at 150 PSI.

Union



*PART NUMBER	MATERIAL	STOCK SIZES
S4U ***	304 Stainless Steel	¼" - 4"
S6U ***	316 Stainless Steel	¼" - 4"
FSU ***	Forged Steel	1"

Cap



*PART NUMBER	MATERIAL	STOCK SIZES
S4C AP***	304 Stainless Steel	1/8" - 4"
S6C AP***	316 Stainless Steel	1/8" - 4"

Plug



*PART NUMBER	MATERIAL	STOCK SIZES
S4P ***	304 Stainless Steel	1/8" - 4"
S6P ***	316 Stainless Steel	1/8" - 4"

Cross



*PART NUMBER	MATERIAL	STOCK SIZES
S4C ROS***	304 Stainless Steel	¼" - 4"
S6C ROS***	316 Stainless Steel	¼" - 4"

Reducing Coupling



*PART NUMBER	MATERIAL	STOCK SIZES
S4C R***	304 Stainless Steel	¼" x 1/8" - 4" x 1"
S6C R***	316 Stainless Steel	¼" x 1/8" - 4" x 1"

Reducing Flange



*PART NUMBER	MATERIAL	STOCK SIZES
S4F R***	304 Stainless Steel	2 x 1 ½" - 4" x 3"
FSF R***	Forged Steel	½ x 3"

METAL THREADED PIPE FITTINGS (CONT.)

*To get part number of fitting: replace *** with desired fitting size. For example, S4F*** could be S4F 2.

**Other sizes available upon request.

Bushing



*PART NUMBER	MATERIAL	STOCK SIZES
S4B ***	304 Stainless Steel	¼" x ⅛" - 4" x 1"
S6B ***	316 Stainless Steel	¼" x ⅛" - 4" x 1"
FSB ***	Forged Steel	1" x ¾" 1" x ⅝" 1½" x 1" 1¼" x 1" ¾" x ¼"
ALB ***	Aluminum	¾" x ½" - 4" x 3"

Blind Flange



*PART NUMBER	MATERIAL	STOCK SIZES
S4F ***B	304 Stainless Steel	1 ½" - 6"
S6F ***B	316 Stainless Steel	1 ½" - 8"
FSF ***B	Forged Steel	2½" - 6"

Lap Joint



*PART NUMBER	MATERIAL	STOCK SIZES
S4F LAPJOINT***	304 Stainless Steel	1" - 8"
S6F LAPJOINT***	316 Stainless Steel	2" - 8"
FSF LAPJOINT***	Forged Steel	1.5" - 6"

ANSI NPT Flange



*PART NUMBER	MATERIAL	STOCK SIZES
S4F ***	304 Stainless Steel	1 ½" - 6"
S6F ***	316 Stainless Steel	¾" - 4"
ALF ***	Aluminum	1 ½" - 3"
FSF ***	Forged Steel	2" - 4"

Nipple



*PART NUMBER	MATERIAL	STOCK SIZES
S4N ***	304 Stainless Steel	¼" - 24"
S6N ***	316 Stainless Steel	¼" - 24"
FSN ***	Forged Steel	¾"

Weld Neck Flange



*PART NUMBER	MATERIAL	STOCK SIZES
S4F ***W	304 Stainless Steel	1" - 4"
S6F ***W	316 Stainless Steel	1½" - 4"

Closed Nipple



*PART NUMBER	MATERIAL	STOCK SIZES
S4N ***XCL	304 Stainless Steel	¼" - 6"
S6N ***CL	316 Stainless Steel	¼" - 6"
FSN ***CL	Forged Steel	¾" - 6"

ACCESSORIES - FITTINGS

ON-HAND INVENTORY



Murray Equipment keeps a large inventory of parts on-hand to ship on demand. We understand our customers' businesses require minimal downtime. So, not only do we ensure each system part is designed to withstand chemical and environmental wear, we also keep our shelves stocked with replacement parts.

POLYPROPYLENE THREADED PIPE FITTINGS

*To get part number of fitting: replace *** with desired fitting size. For example, PLY L *** could be PLY L2.

**Other sizes available upon request.

90° Elbow



*PART NUMBER	MATERIAL	STOCK SIZES
PLY L***	Polypropylene	½" - 3"
PVC L***SXS	PVC	2" - 6"
PVC L***TXT	PVC	2" - 6"

45° Elbow



*PART NUMBER	MATERIAL	STOCK SIZES
PLY LS***X45	Polypropylene	1" - 3"
PVC L45***SXS	PVC	2" - 6"
PVC L45***TXT	PVC	2" - 4"

90° Street Elbow



*PART NUMBER	MATERIAL	STOCK SIZES
PLY LS***	Polypropylene	¾" - 3"

Tee



*PART NUMBER	MATERIAL	STOCK SIZES
PLY T***	Polypropylene	¾", 1½", 1" - 3"
PVC T***SXSXS	PVC	2" - 6"
PVC T***TXTXT	PVC	2" - 4"

Coupling



*PART NUMBER	MATERIAL	STOCK SIZES
PLY C***	Polypropylene	½" - 3"
PVC C***SXS	PVC	2" - 6"
PVC C***TXT	PVC	2" - 4"
PVC C***MTXFS	PVC	2" - 3"

Union



*PART NUMBER	MATERIAL	STOCK SIZES
PVC U***SXS	PVC	2" - 3"
PVC U***TXT	PVC	2" - 3"

Cap



*PART NUMBER	MATERIAL	STOCK SIZES
PLY CAP***	Polypropylene	¾" - 3"
PVC CAP***T	PVC	2" - 4"

Plug



*PART NUMBER	MATERIAL	STOCK SIZES
PLY P***	Polypropylene	½" - 3"

Cross



*PART NUMBER	MATERIAL	STOCK SIZES
PLY CROS***	Polypropylene	¾" - 2"

Reducing Coupling



*PART NUMBER	MATERIAL	STOCK SIZES
PLY CR***	Polypropylene	1" x ¾" - 3" x 2"

Forged steel fittings rated at 2000 PSI, all others at 150 PSI.

ACCESSORIES - FITTINGS

POLYPROPYLENE THREADED PIPE FITTINGS (CONT.)

*To get part number of fitting: replace *** with desired fitting size. For example, PLY L *** could be PLY L2.

**Other sizes available upon request.

Bushing



*PART NUMBER	MATERIAL	STOCK SIZES
PLY B***	Polypropylene	½" x ¼" - 4" x 3"
PVC B***	PVC	2" - 4"

Blind Flange



*PART NUMBER	MATERIAL	STOCK SIZES
PVC F***B	PVC	2" - 4"

Nipple



*PART NUMBER	MATERIAL	STOCK SIZES
PLY N***	Polypropylene	½" x Close - 3" x 6"
PLY N***CL	Polypropylene	1" - 3"
PVC N***	PVC	1½" - 6"

Hose Menders



*PART NUMBER	MATERIAL	STOCK SIZES
BAN HM***	Polypropylene	1½" x 1½" 2" x 2"

Flange



*PART NUMBER	MATERIAL	STOCK SIZES
PLY F***	Polypropylene	1 ½" - 4"
PVC F***	PVC	2" - 4"
PVC F***S	PVC	2" - 6"

DON'T SEE THE POLY FITTING OR PART YOU NEED?

MEI carries the full Banjo parts catalog. This means we can source your needed part.

Call our sales team at 260-484-0382 for a quote and to check our stock status.



PIPE SEALERS AND FLANGE GASKETS

ACCESSORIES - FITTINGS

MULTI-PURPOSE

Rectorseal No. 5

Multi-purpose pipe thread compound for lines carrying liquids and gasses such as petroleum herbicides, NH₃, and nitrogen. Slow drying and soft set. Not for use with concentrated acids.



PART NUMBER	DESCRIPTION
REC 5-1/4PT	¼ pint
REC 5-1PT	1 pint

Rectorseal T Plus 2 PTFE Paste

Multi-purpose non-setting pipe thread sealer for use on threaded Iron, Aluminum, Stainless Steel, Polyethylene, and PVC.



PART NUMBER	DESCRIPTION
REC TPLUS2-1PT	1 pint

PTFE Thread Tape Pipe Joint Sealer

Multi-purpose PTFE thread tape. Handles most chemicals. Roll contains 520 inches.



PART NUMBER	DESCRIPTION
REC TEFTAPE1/2	½" wide
REC TEFTAPE3/4	¾" wide
REC TEFTAPE1	1" wide

STAINLESS STEEL

Loctite 567

Multi-purpose thread sealant. Recommended for Stainless Steel threads.



PART NUMBER	DESCRIPTION
REC LOCTITE50	1.69 oz.
REC LOCTITE250	8.45 oz.

Loctite 7649

Primer spray to be used with Loctite 567 to reduce cure time.



PART NUMBER	DESCRIPTION
REC PRIMER128G	.45 oz.
REC PRIMER-25G	.88 oz

NH₃

PLS 2 Thread Seal

Pipe thread and gasket sealer designed for use with pipes carrying liquid and gaseous ammonia (NH₃).



PART NUMBER	DESCRIPTION
JCS 21LB	¼ pint

FASTENERS

Rectorseal Moly-Rich Anti-Seize

Anti-seizing compound that prevents seizing and galling of threads. Will not squeeze out of threads, gum up, or wash off. It permits fast, easy disassembly, even after lengthy service under severe conditions.



PART NUMBER	DESCRIPTION
REC ANTISEIZE	1 pint

PVC

Rectorseal Primer/Cleaner

Primer/cleaner that prepares PVC connections for glue joint.



PART NUMBER	DESCRIPTION
REC 1PTPRIMER	1 pint
REC 1QTPRIMER	1 quart

Rectorseal Cement

Slow-setting PVC cement. For use on PVC pipe up to 12".



PART NUMBER	DESCRIPTION
REC 1PTGLUE	1 pint
REC 1QTGLUE	1 quart

FLANGE GASKETS



PART NUMBER	DESCRIPTION
DBL ***GASKET	1½" - 10"
DBL***TEFGKT-FF	2" - 4"

WELD FITTINGS

*To get part number of fitting: replace *** with desired fitting size. For example, S4 LWELDELLR*** could be S4 LWELDELLR3.
 **Other sizes available upon request.

90° Elbow – Short Radius



PART NUMBER	MATERIAL	SIZES
S4L WELD***S10SR	304 Stainless Steel Schedule 10	3"

90° Elbow – Long Radius



PART NUMBER	MATERIAL	SIZES
S4L WELD***SCH10	304 Stainless Steel Schedule 10	1 ½" - 8"
S4L WELD***SCH40	304 Stainless Steel Schedule 40	1 ½" - 4"
S6L WELD***SCH10	316 Stainless Steel Schedule 10	1" - 8"
S6L WELD***SCH40	316 Stainless Steel Schedule 40	1 ½" - 4"

45° Elbow



PART NUMBER	MATERIAL	SIZES
S4L WLD***X45-10	304 Stainless Steel Schedule 10	1" - 8"
S6 WLD***X45-10	316 Stainless Steel Schedule 10	2" - 4"
S6 WLD***X45-40	316 Stainless Steel Schedule 40	4"

Tee



PART NUMBER	MATERIAL	SIZES
S4T WELD***SCH10	304 Stainless Steel Schedule 10	1 ½" - 8"
S4T WELD***SCH40	304 Stainless Steel Schedule 40	2" - 4"
S6T WELD***SCH10	316 Stainless Steel Schedule 10	1 ½" - 8"
S6T WELD***SCH40	316 Stainless Steel Schedule 40	2" - 4"

Cap



PART NUMBER	MATERIAL	SIZES
S4C APWELD***S10	304 Stainless Steel Schedule 10	3"

Eccentric Reducer



PART NUMBER	MATERIAL	SIZES
S4C RWEL***ECC	304 Stainless Steel Schedule 40	6" x 4"
S6C RWEL***ECC	316 Stainless Steel Schedule 10	4" x 3" - 6" x 4"

Concentric Reducer



PART NUMBER	MATERIAL	SIZES
S4C RWEL***-10	304 Stainless Steel Schedule 10	2" x 1" - 6" x 4"
S4C RWEL***-40	304 Stainless Steel Schedule 40	3" x 2" - 4" x 3"
S6C RWEL***-10	316 Stainless Steel Schedule 10	1 ½" x 1" - 8" x 6"
S6C RWEL***-40	316 Stainless Steel Schedule 40	1 ½" x 1" - 4" x 2"

Slip On Flange



PART NUMBER	MATERIAL	SIZES
FSF ***S	Carbon Steel Schedule 40	2" - 6"
S4F ***S	304 Stainless Steel	1" - 8"
S6F ***S	316 Stainless Steel	1 ½" - 8"

Stub End



PART NUMBER	MATERIAL	SIZES
S4S TUB***SCH10	304 Stainless Steel	1" - 8"
S6S TUB***SCH10	316 Stainless Steel	3" - 6"

Hose Barb/King Nipple Plain End



PART NUMBER	MATERIAL	SIZES
DIX HBS-***P	316 Stainless Steel	½" - 8"

CAMLOCKS

*To get part number of fitting: replace *** with desired fitting size as stated in 100s. For example, CAM B-ALS*** could be CAM B-ALS-075 (3/4") or CAM B-ALS-150 (1 1/2") or CAM B-ALS-200 (2"), etc.

ACCESSORIES - CAMLOCKS

Style A: Male Adaptor/FNPT



*PART NUMBER	MATERIAL	SIZES
BAN ***-A	Polypropylene	¼" – 4"
CAM A-AL-***	Aluminum	1" – 6"
CAM A-SS-***	Stainless Steel	1" – 4"

Style A-90: Male Adaptor/FNPT 90° Elbow

*With Stainless Steel Arms



*PART NUMBER	MATERIAL	SIZES
BAN 150A-90	Polypropylene	1 ½"
BAN 200A-90	Polypropylene	2"

Style B: NPT/Female Coupler

*With Stainless Steel Arms



*PART NUMBER	MATERIAL	SIZES
BAN ***-B	Polypropylene	¾" – 4"
CAM B-ALS-***	Aluminum	¾" – 4"
CAM B-SS-***	Stainless Steel	¾" – 4"

Style C: Female Coupler/Hose Barb

*With Stainless Steel Arms



*PART NUMBER	MATERIAL	SIZES
BAN ***-C	Polypropylene	¾" – 4"
CAM C-ALS-***	Aluminum	¾" – 4"
CAM C-SS-***	Stainless Steel	¾" – 4"

Style C-90: Female Coupler/Hose Barb 90° Elbow

*With Stainless Steel Arms



*PART NUMBER	MATERIAL	SIZES
BAN 150C-90	Polypropylene	1 ½"
BAN 200C-90	Polypropylene	2"

Style D: Female Coupler/FNPT

*With Stainless Steel Arms



*PART NUMBER	MATERIAL	SIZES
BAN ***-D	Polypropylene	¾" – 4"
CAM D-ALS-***	Aluminum	¾" – 4"
CAM D-SS-***	Stainless Steel	1" – 4"

Style D-90: Female Coupler/FNPT 90° Elbow

*With Stainless Steel Arms



*PART NUMBER	MATERIAL	SIZES
BAN 200D-90	Polypropylene	2"

Style E: Male Adapter/Hose Barb



*PART NUMBER	MATERIAL	SIZES
BAN ***-F	Polypropylene	¾" – 4"
CAM E-AL-***	Aluminum	1" – 4"
CAM E-SS-***	Stainless Steel	¾" – 4"

Style F: Male Adapter/NPT



*PART NUMBER	MATERIAL	SIZES
BAN ***-F	Polypropylene	¾" – 4"
CAM F-AL-***	Aluminum	1" – 4"
CAM F-SS-***	Stainless Steel	1" – 4"

Style F-90: Male Adaptor/NPT 90° Elbow



*PART NUMBER	MATERIAL	SIZES
BAN 150F-90	Polypropylene	1 ½"
BAN 200F-90	Polypropylene	2"

Style DP: Male Adapter Dust Plug



*PART NUMBER	MATERIAL	SIZES
BAN ***-PL	Polypropylene	¾" – 4"
CAM DP-AL-***	Aluminum	1" – 4"
CAM DP-SS-***	Stainless Steel	1" – 4"

Style DC: Male Adapter Dust Cap

*With Stainless Steel Arms



*PART NUMBER	MATERIAL	SIZES
BAN ***-CAP	Polypropylene	¾" – 4"
CAM DC-ALS-***	Aluminum	¾" – 4"
CAM DC-SS-***	Stainless Steel	2" – 4"

CAMLOCK REPLACEMENT PARTS

CAMLOCK GASKETS

Banjo Camlock Gasket



*PART NUMBER	MATERIAL	SIZES
BAN ***G	EPDM	¾" - 4"

Motion Industries Camlock Gaskets



PART NUMBER	MATERIAL	SIZES
MEK 30YST	Nitrile	3"
MEK 15YST	Nitrile	1½"
MEK 20YST	Nitrile	2"

OPW Camlock Gaskets



PART NUMBER	MATERIAL	SIZES
OPW H20544M	Nitrile	2"
OPW H20546M	Nitrile	3"
OPW H20547M	Nitrile	4"
OPW H6429M	Nitrile	2½"

CAMLOCK ARM ACCESSORIES

Banjo Camlock Replacement Arms



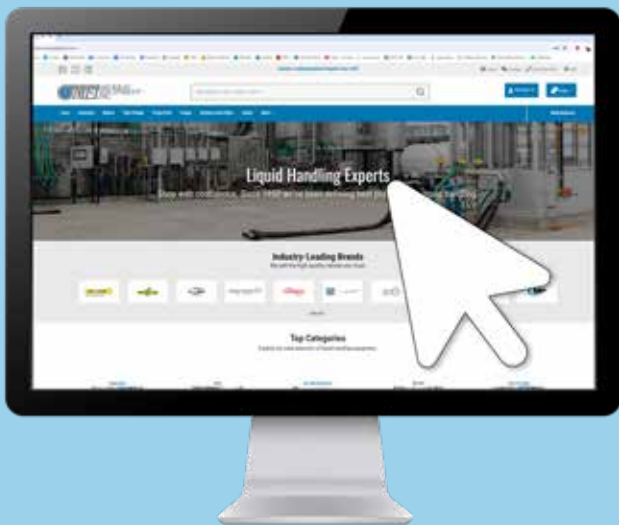
PART NUMBER	DESCRIPTION
BAN 150(200)K6	1½" X 2" Cam Arm with Ring
BAN 300K	3"- 4" Camlock Arm with Ring

Banjo Camlock Arm Pin



PART NUMBER	DESCRIPTION
BAN 200P	1½" & 2" Pin
BAN 300P	3" & 4" Pin

ACCESSORIES -
CAMLOCKS



BUY PARTS ONLINE!

Thanks to Shop.MurrayEquipment.com you can now order parts 24-7 online.

See what's in stock, check current pricing, and purchase with a credit card. Ship directly to your location or pick up parts right here at our headquarters.

Not sure what you need or don't see something listed online? Our equipment experts are still available M-F 8AM-5PM Eastern to ensure you get the support you need.

BULK SUCTION & DISCHARGE HOSE

ACCESSORIES - HOSE

EPDM

Series 300 (Green)

Green EPDM rubber suction/discharge hose with polyethylene helix exterior. 50 PSI & 150° F max temperature. Priced by foot with maximum 100' rolls.

Applications: Most fertilizers & Chemicals. Not compatible with petroleum and trifluralin based fluids.



PART NUMBER	DESCRIPTION
HOS 300EPDM-1.5	1½"
HOS 300EPDM-2	2"
HOS 300EPDM-3	3"
HOS 300EPDM-4	4"

Series 390 (Black)

Black EPDM rubber suction/discharge hose with a polyethylene helix exterior and synthetic interior braiding. 100 PSI & 158° F max temperature. Priced by foot with maximum 100' rolls.

Applications: Most fertilizers & Chemicals. Not compatible with petroleum and trifluralin based fluids.



PART NUMBER	DESCRIPTION
HOS 390SDBK-2	2"
HOS 390SDBK-3	3"

Series 2612

EPDM suction/discharge hose with 4 textile spirals and helical wire. 125 PSI & 180° F max temperature. Priced by foot with maximum 100' rolls.

Applications: Most fertilizers & Chemicals. Not compatible with petroleum and trifluralin based fluids.



PART NUMBER	DESCRIPTION
HOS WSD1	1"
HOS WSD 11/2	1 ½"
HOS WSD2	2"
HOS WSD3	3"
HOS WSD4	4"

PVC

Clear PVC Hose

Flexible PVC suction/discharge hose with rigid white spiral PVC helix & smooth bore inside and outside. 186 PSI & 158° F max temperature. Priced by foot with maximum 100' rolls.

Applications: Most agricultural fertilizers and certain acids. Not recommended for agricultural chemicals. Capable of pulling full vacuum.



PART NUMBER	DESCRIPTION
HOS PVC3/4	3/4"
HOS PVC1	1"
HOS PVC11/4	1 ¼"
HOS PVC11/2	1 ½"
HOS PVC2	2"
HOS PVC3	3"
HOS PVC4	4"
HOS PVC6	6"

RUBBER/POLYETHYLENE

All Chemical Hose

Blue synthetic rubber suction/discharge hose with cross linked polyethylene liner and reinforced with double wire helix. 200 PSI & 250° F max temperature. Priced by foot with maximum 100' rolls.



PART NUMBER	DESCRIPTION
HOS UHMW3/4	¾"
HOS UHMW1	1"
HOS UHMW11/4	1 ¼"
HOS UHMW11/2	1 ½"
HOS UHMW2	2"
HOS UHMW3	3"
HOS UHMW4	4"

BULK SUCTION & DISCHARGE HOSE (CONT.)

DISCHARGE ONLY

EPDM

EPDM hose with woven textile spiral yarn-woven interior. 150 PSI & 150° F max temperature. Priced by foot with maximum 100' rolls.

Applications: Most fertilizers & Chemicals. Not compatible with petroleum and trifluralin based fluids. Not for use on the suction side of a pump.



PART NUMBER	DESCRIPTION
HOS ED3/8	3/8"
HOS ED1/2	1/2"
HOS ED3/4	3/4"
HOS ED1	1"
HOS ED11/4	1 1/4"
HOS ED11/2	1 1/2"
HOS ED2	2" and 100 PSI
HOS ED3	3" and 100 PSI
HOS ED4	4" and 100 PSI
HOS ED6	6" and 100 PSI

Lay-Flat PVC

Collapsible braided blue vinyl PVC hose that can be easily rolled up for storage. 85 PSI & 158° F max temperature. Priced by foot with maximum 100' rolls.

Applications: Water or fertilizer discharge



PART NUMBER	DESCRIPTION
HOS PVCD2	2"
HOS PVCD3	3"
HOS PVCD4	4"
HOS PVCD6	6"

SIGHT GAUGE

Clear PVC Tubing

Clear tubing. -13° to 158° F. Working pressure of 50 PSI and burst pressure of 155 PSI at 72° F. Priced by foot with maximum 100' rolls.

Applications: Site gauges for applicators & bulk tanks. Not recommended for bulk crop protection product storage tanks.



PART NUMBER	DESCRIPTION
HOS SG3/8X5/8	3/8"
HOS SG1/2X3/4	1/2"
HOS SG3/4X1	3/4"
HOS SG1X11/4	1"
HOS SG11/2X2	1 1/2" maximum 50' rolls.
HOS SG2X21/2	2"
HOS SG1/4X3/8	1/4"

DEF HOSE

DEF Suction and Discharge Hose

Bulk DEF Hose. Priced by foot with maximum 100' rolls.

Applications: DEF use only.



PART NUMBER	DESCRIPTION	SIZE
DEF***HOSE	3/4" & 1 1/2 Bulk DEF Hose (1')	3/4" & 1 1/2"
DEF1D-HOSE	1" DEF Discharge Hose	1"
DEF***S-HOSE	1&2 DEF Suction Hose	1" - 2"
DEF ***SHOS	1.5" DEF Suction Hose	3/4" - 1 1/2"

PRE-COUPLED HOSE

ACCESSORIES - HOSE

AGRICULTURE

EPDM

EPDM Delivery Hose

Applications: Delivery of most fertilizers & Chemicals. Not compatible with petroleum and trifluralin based fluids.



PART NUMBER	DESCRIPTION
HOS ED-1X12P	1" x 12' EPDM delivery hose with poly NPT ends. 150 PSI & 190° F max.

Solvent Pre-Coupled Hose

Solvent Delivery Hose

Applications: Delivery of most fertilizers & Chemicals. Compatible with petroleum and trifluralin based fluids.



PART NUMBER	DESCRIPTION
HOS 414-1X1X5	1" x 5' solvent hose with poly ends
HOS 414-1X1X8	1" x 8' solvent hose with poly ends
HOS 414-1X1X12	1" x 12' Solvent hose with poly ends

DEF

Coupled Delivery Hose – DEF

DEF discharge hose

Applications: DEF use only.



PART NUMBER	DESCRIPTION
DEF D3/4X25S	25', 3/4" Stainless Steel MNPT both ends
DEF D3/4X15SPP	15', 3/4" Stainless Steel MNPT and 1" female BSPP
DEF D3/4X18SPP	18', 3/4" Stainless Steel MNPT and 1" female BSPP
DEF D3/4X25SPP	25', 3/4" Stainless Steel MNPT and 1" female BSPP

Coupled Delivery Hose with Spring-Rewind Reel

Spring rewind reel with 25' of hose.

Applications: DEF use only.



PART NUMBER	DESCRIPTION
DEF REEL-25	3/4" NPT Stainless Steel ends
DEF REEL-25BSP	1" Female BSPP ends

SHOCK & VIBRATION ABSORPTION

Stainless Steel Flanged Flex Hose

304 Stainless Steel flex hose with Stainless Steel flanges. 150 PSI & 180°F.

Applications: Installation in fluid line to absorb shock and vibration.



PART NUMBER	DESCRIPTION
GSI SSFLEX2X12	2" ANSI flanged x 12"
GSI SSFLEX2X18	2" ANSI flanged x 18"
GSI SSFLEX3X12	3" ANSI flanged x 12"
GSI SSFLEX3X18	3" ANSI flanged x 18"
GSI SSFLEX3X24	3" ANSI flanged x 24"
GSI SSFLEX4X12	4" ANSI flanged x 12"
GSI SSFLEX4X18	4" ANSI flanged x 18"
GSI SSFLEX4X24	4" ANSI flanged x 24"
GSI SSFLEX6X12	6" ANSI flanged x 12"
GSI SSFLEX6X18	6" ANSI flanged x 18"
GSI SSFLEX6X24	6" ANSI flanged x 24"
GSI SSFLEX6X36	6" ANSI flanged x 36"
GSI SSFLEX8X24	8" ANSI flanged x 24"

HOSE BARB/KING NIPPLES

*Other sizes available upon request.

90° HOSE BARB

Nylon Threaded King Nipples 90° Elbow



SIZE*		MATERIAL/PART NUMBER	
HOSE	NPT	TUFF-LITE NYLON	POLYPROPYLENE
1/4"	1/4"	DIX TLS22	
3/8"	1/4"	DIX TLS32	
3/8"	1/2"	DIX TLS34	
1/2"	1/2"	DIX TLS44	
1/2"	3/4"	DIX TLS46	
1/2"	1"	DIX TLS48	
3/4"	3/4"	DIX TLS66	
3/4"	1"	DIX TLS68	
1"	1"	DIX TLS88	BAN HB-100-90
1 1/2"			BAN HB-150-90
2"			BAN HB-200-90
3"			BAN HB-300-90

STRAIGHT HOSE BARB

Threaded King Nipples



SIZE*		MATERIAL/PART NUMBER				
HOSE	NPT	TUFF-LITE NYLON	POLYPROPYLENE	STAINLESS STEEL	IRON	ALUMINUM
1/2"	1/4"	DIX TN46		DIX HBS-1/4T		
1/2"	1/2"	DIX TN44		DIX HBS-1/2T		
3/4"	1/2"	DIX TN64		DIX HBS-3/8T		
3/4"	3/4"	DIX TN66		DIX HBS-3/4T	DIX HBI-3/4T	DIX HBA-3/4T
3/4"	1"	DIX TN68				
1"	1"	DIX TN88	BAN HB-100	DIX HBS-1T		
1 1/4"	1 1/4"		BAN HB-125	DIX HBS-11/4T	DIX HBI-11/4T	
1 1/2"	1 1/2"		BAN HB-150	DIX HBS-11/2T	DIX HBI-11/2T	DIX HBA-11/2T
2"	2"		BAN HB-200	DIX HBS-2T	DIX HBI-2T	DIX HBA-2T
2 1/2"	2 1/2"			DIX HBS-21/2T		
3"	3"		BAN HB-300	DIX HBS-3T	DIX HBI-3T	DIX HBA-3T
4"	4"		BAN HB-400	DIX HBS-4T	DIX HBI-4T	
6"	6"			DIX HBS-6T		

HOSE CLAMPS

SCREW CLAMPS

Series 60 - High Torque Stainless Steel

Stainless steel hex head with stainless steel 5/8" Band. 10 to a box.



PART NUMBER	HOSE OUTER DIAMETER
SCC 60175	1" - 1 3/4"
SCC 60200	1 1/4" - 2 1/8"
SCC 60250	1 3/4" - 2 5/8"
SCC 60300	2 1/4" - 3 1/8"
SCC 60350	2 3/4" - 3 5/8"
SCC 60400	3 1/4" - 4 1/8"
SCC 60450	3 3/4" - 4 5/8"
SCC 60500	4 1/4" - 5 1/8"

Series 67 Stainless Steel

Stainless steel hex head with stainless steel 1/2" band. 10 to a box.



PART NUMBER	HOSE OUTER DIAMETER
SCC U5	5/16" - 5/8"
SCC M8	7/16" - 7/8"
SCC 6	7/16" - 25/32"
SCC 8	7/16" - 1"
SCC 10	7/16" - 1 1/16"
SCC 12	1 1/16" - 1 1/4"
SCC 16	1 3/16" - 1 1/2"
SCC 20	1 3/16" - 1 3/4"
SCC 28	1 5/6" - 2 1/4"
SCC 32	1 9/16" - 2 1/2"
SCC 36	1 13/16" - 2 3/4"
SCC 40	2 1/16" - 3"
SCC 56	3 1/16" - 4"
SCC 72	4 1/8" - 5"
SCC 104	6 1/8" - 7"

BOLT CLAMPS

Dixon T-Bolt 301 Stainless Steel Clamps



PART NUMBER	HOSE OUTER DIAMETER
DIX TBC150	1 9/32" - 1 19/32"
DIX TBC175	1 17/32" - 1 27/32"
DIX TBC188	1 21/32" - 1 31/32"
DIX TBC200	1 25/32" - 2 3/32"
DIX TBC225	2 3/32" - 2 9/32"
DIX TBC238	2 5/32" - 2 15/32"
DIX TBC250	2 9/32" - 2 19/32"
DIX TBC256	2 11/32" - 2 21/32"
DIX TBC288	2 21/32" - 2 31/32"
DIX TBC300	2 25/32" - 3 3/32"
DIX TBC350	3 9/32" - 3 19/32"
DIX TBC375	3 17/32" - 3 27/32"
DIX TBC450	4 9/32" - 4 19/32"
DIX TBC475	4 17/32" - 4 27/32"

Dixon 2 Bolt Malleable Iron Clamps



PART NUMBER	HOSE OUTER DIAMETER
DIX 400	3 1/2" - 3 13/16"
DIX 525	4 1/4" - 4 15/16"
DIX 675	5 5/16" - 6 1/2"
DIX 769	6 1/2" - 7 9/16"

CENTER PUNCH CLAMPS

Center Punch Stainless Steel Clamps



PART NUMBER	HOSE OUTER DIAMETER
PLC 8S	2"
PLC 10S	2 1/2"
PLC 12S	3"
PLC 14S	3 1/2"
PLC 16S	4"
PLC 20S	5"
PLC 24S	6"
PLC 32S	8"

T-300 Center Punch



PART NUMBER	HOSE OUTER DIAMETER
BND T300	Center Punch Tool for all Center Punch Clamps

MANIFOLDS

POLY MANIFOLDS

Polypropylene Flanged Coupling



PART NUMBER	DESCRIPTION
BAN M200CPG	2" X 2" Flange X 4 1/2" Long
BAN M300CPG45	3" X 3" Full Port 45° Flange
BAN M300CPG7	3" X 3" Full Port Flange X 7" Long
BAN M300CPG90	3" X 3" 90° Full Port Flange

Polypropylene Flanged Hose Barb



PART NUMBER	DESCRIPTION
BAN M300BRB	3" Flange X 3" Hose Barb
BAN M300BRB45	3" Flange X 3" 45° Hose Barb Elbow
BAN M300 BRB90	3" Flange X 3" 90° Hose Barb Elbow

Polypropylene Flanged Adapters



PART NUMBER	DESCRIPTION
BAN M200MPT	2" Full Port Flange X 2" Male Thread
BAN M220MPT	2" Full Port Flange X 2" Male Thread
BAN M300FPT	3" Flange X 3" Female Thread
BAN M300 MPT	3" Flange X 3" Male Thread

Polypropylene Manifold Camlock Connections



PART NUMBER	DESCRIPTION
BAN M220D	2" Full Port Flange X 2" Female Coupler
BAN M300A	3" Full Port Flange X 3" Male Adapter
BAN M303D	Full Port Flange X 3" Female Coupler with 3 Arms
BAN MVSF300	3" Stubby Valve QDC X Flange Long Handle
BAN VSF200CF	2" Manifold Valve by 2" Cam F

Polypropylene Flanged Tee



PART NUMBER	DESCRIPTION
BAN M300TEE	3" Flanged Tee

Polypropylene Manifold Hose Clamps



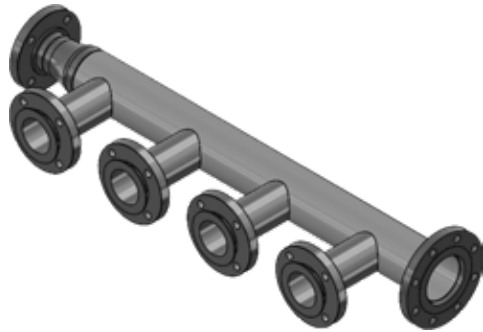
PART NUMBER	DESCRIPTION
BAN FC100	100 Series Worm Screw Clamp
BAN FC200	200 Series Worm Screw Clamp
BAN FC220	220 Series Worm Screw Clamp
BAN FC300	300 Series Worm Screw Clamp

STOCK SUCTION MANIFOLDS

ACCESSORIES - STOCK MANIFOLDS

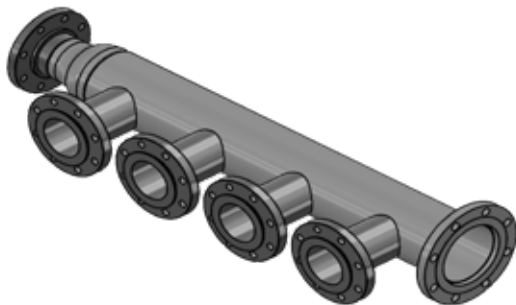
STAINLESS STEEL SUCTION MANIFOLDS

4" Flanged Manifolds with 3" Flanged Product Inlets

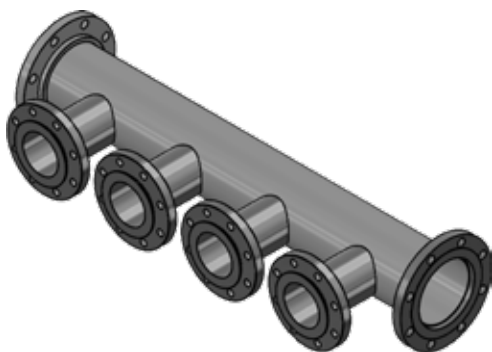


PART NUMBER	DESCRIPTION
MAN 43L4S3ML4N	4" 304 Stainless Steel Suction Manifold with 3" Lap Joint Left Connection, 4" Slip Flange Right Connection, 4 3" Manispud Inlets with Lap Joint Flange Connections. No Air Purge.

6" Flanged Manifolds with 4" Flanged Product Inlets



PART NUMBER	DESCRIPTION
MAN 64L6S4ML4N	6" 304 Stainless Steel Suction Manifold with 4" Lap Joint Flange Left Connection, 6" Slip Flange Right Connection. 4 4" Manispud Inlets with Lap Joint Flange Connections. No Air Purge.



MAN 66S6S4ML4N	6" 304 Stainless Steel Suction Manifold with 6" Slip Flange Left Connection, 6" Slip Flange Right Connection, 4 4" Manispud Inlets with Lap Joint Flange Connections. No Air Purge.
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STOCK INJECTION MANIFOLDS

STAINLESS STEEL INJECTION MANIFOLDS

2" Flanged Manifolds with 1" NPT Product Inlets



PART NUMBER	DESCRIPTION
INJ 22S2S1IT1N	2" 304 Stainless Steel Injection Manifold with 2" Slip Flange Left Connection, 2" Slip Flange Right Connection, 1 Schedule 10 1" Inlets, Toe Nipples. No Air Purge.

3" Flanged Manifolds with 1" NPT Product Inlets



PART NUMBER	DESCRIPTION
INJ 33S3S5IT4N	3" 304 Stainless Steel Injection Manifold with 3" Slip Flange Left Connection, 3" Slip Flange Right Connection, 4 Schedule 10 1 1/2" Inlets, Toe Nipples. No Air Purge.
INJ 44S4S59T0N	3" 304 Stainless Steel Injection Manifold with 3" Slip Flange Left Connection, 3" Slip Flange Right Connection, 4 Schedule 10 1 1/2" Inlets, Toe Nipples. No Air Purge.

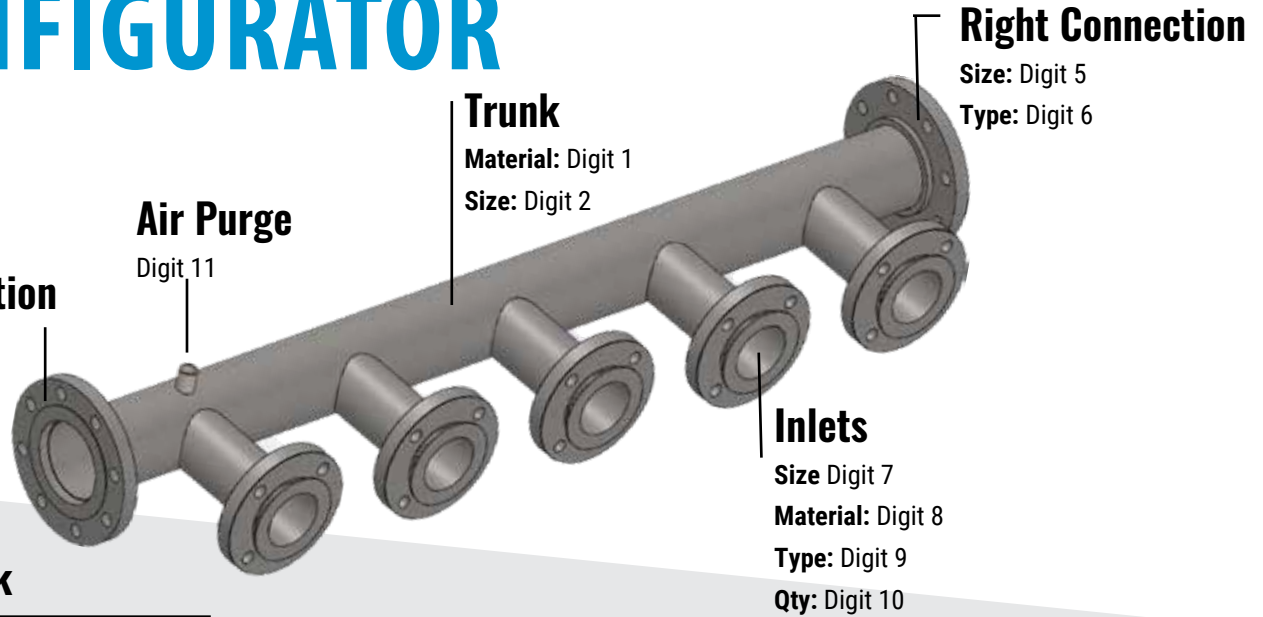
4" Flanged Manifolds with 1 1/2" NPT Product Inlets



PART NUMBER	DESCRIPTION
INJ 44S4S59T8N	4" 304 Stainless Steel Injection Manifold with 4" Slip Flange Left Connection, 4" Slip Flange Right Connection, 8 Schedule 10 1 1/2" Inlets, Toe Nipples. No Air Purge.
INJ 44S3L59T8N	4" 304 Stainless Steel Injection Manifold with 4" Slip Flange Left Connection, 3" Lap Joint Flange Right Connection, 8 Schedule 10 1 1/2" Inlets, Toe Nipples. No Air Purge.
INJ 44S3L59T0N	4" 304 Stainless Steel Injection Manifold with 4" Slip Flange Left Connection, 3" Lap Joint Flange Right Connection, 10 schedule 10 1 1/2" Inlets, Toe Nipples. No Air Purge.
INJ 43L3L59T8N	4" 304 Stainless Steel Injection Manifold with 3" Lap Joint Flange Left Connection, 3" Lap Joint Flange Right Connection, 8 Schedule 10 1 1/2" Inlets, Toe Nipples. No Air Purge.
INJ 44L4S59T12	4" 304 Stainless Steel Injection Manifold with 4" Lap Joint Flange Left Connection, 4" Slip Flange Right Connection, 12 Schedule 10 1 1/2" Inlets, Toe Nipples. No Air Purge.

SUCTION/DISCHARGE MANIFOLD CONFIGURATOR

ACCESSORIES -
MANIFOLD CONFIGURATOR



Trunk

Material: Digit 1	
4	304 Stainless Steel
6	316 Stainless Steel

Size: Digit 2	
2	2in
3	3in
4	4in
6	6in
8	8in

Left Connection

Size: Digit 3	
2	2in
3	3in
4	4in
6	6in
8	8in

Type: Digit 4	
S	Slip Flange
L	Lap Joint Flange
T	Toe Nipple

Right Connection

Size: Digit 5	
2	2in
3	3in
4	4in
6	6in
8	8in

Type: Digit 6	
S	Slip Flange
L	Lap Joint Flange
T	Toe Nipple

Inlets (cont)

Material: Digit 8	
M	Manispud
P	Schedule 10 Pipe
T	Toe Nipple

Type: Digit 9	
S	Slip Flange
L	Lap Joint Flange
T	Toe Nipple

Inlet Qty: Digit 10	
1-9	1-9
0	10

Inlets

Size: Digit 7	
1	1in
9	1-1/2in
2	2in
3	3in
4	4in
6	6in

Air Purge: Digit 11	
N	None
1	1/4in
2	1/2in
3	3/4"

Part number
reference
chart

	1	2	3	4	5	6	7	8	9	10	11
M		N									

INJECTION MANIFOLD CONFIGURATOR

Left Connection

Size: Digit 3
Type: Digit 4



Trunk

Material: Digit 1
Size: Digit 2

Right Connection

Size: Digit 5
Type: Digit 6

Inlets

Size Digit 7
Orientation: Digit 8 (90 Degree shown)
Type: Digit 9
Qty: Digit 10



Inline orientation shown

Trunk

Material: Digit 1

4	304 Stainless Steel
6	316 Stainless Steel

Size: Digit 2

2	2in
3	3in
4	4in
6	6in
8	8in

Left Connection

Size: Digit 3

2	2in
3	3in
4	4in
6	6in
8	8in

Type: Digit 4

S	Slip Flange
L	Lap Joint Flange
T	Toe Nipple

Right Connection

Size: Digit 5

2	2in
3	3in
4	4in
6	6in
8	8in

Type: Digit 6

S	Slip Flange
L	Lap Joint Flange
T	Toe Nipple

Inlets

Size: Digit 7

1	1in
9	1-1/2in
2	2in
3	3in
4	4in
6	6in

Inlets (cont)

Orientation: Digit 8

I	Inline
9	90 Degree

Type: Digit 9

S	Slip Flange
L	Lap Joint Flange
T	Toe Nipple

Inlet Qty: Digit 10

1-9	1-9
0	10

Air Purge: Digit 11

N	None
1	1/4in
2	1/2in
3	3/4"

Part number reference chart

	1	2	3	4	5	6	7	8	9	10	11
I		J									

ACCESSORIES -
MANIFOLD CONFIGURATOR

LINE STRAINERS

ACCESSORIES - STRAINERS & FILTERS

CAST IRON HIGH CAPACITY

Hayward Cast Iron Basket Strainer



PART NUMBER	DESCRIPTION
HAY 4LS-***	4" ANSI Flanged strainer
HAY 6LS-***	6" ANSI Flanged strainer

STAINLESS STEEL HIGH CAPACITY

Thompson High Capacity Stainless Steel Strainer

Includes internal 304 Stainless Steel elbow.



PART NUMBER	DESCRIPTION
MLI MLI3-50-D	3" ANSI Flanged 200 GPM self-cleaning strainer with NPT Flush Port
MLI MLI3-50-FL	3" ANSI Flanged 200 GPM self-cleaning strainer
MLI MLI4B-50-2	4" ANSI Flanged 350 GPM self-cleaning strainer
MLI MLI6-30-2	6" ANSI Flanged 750 GPM self-cleaning strainer
MLI MLI8-30-2	8" ANSI Flanged 1300 GPM self-cleaning strainer

Proline 100 Series Bag Filter* Vessel

304 Stainless Steel



PART NUMBER	DESCRIPTION
LSC PROLINE-3	3" ANSI Flanged
LSC PROLINE-4	4" ANSI Flanged 400 GPM
LSC PROLINE-6	6" ANSI Flanged 900 GPM
LSC MODEL-8-3F	4" FLG SS Side Inside Vessel

MEI High Capacity Stainless Steel Strainer

Strainer with easy clean out bottom flush line



PART NUMBER	DESCRIPTION
MIX SPECSTR3-2	3" ANSI Flanged Strainer with .050" Perforation
MIX SPECSTR3-3	3" ANSI Flanged Strainer with 1/8" Perforation
MIX SPECSTR3-4	3" ANSI Flanged Strainer with 3/16" Perforation
MIX SPECSTR4-2	4" ANSI Flanged Strainer with .050" Perforation
MIX SPECSTR4-3	4" ANSI Flanged Strainer with 1/8" Perforation
MIX SPECSTR4-3	4" ANSI Flanged Strainer with 3/16" Perforation
MIX SPSTR3-2.5	3" ANSI Flanged Strainer with 3/32 Perforation
MIX SPSTR4-2.5	4" ANSI Flanged Strainer with 3/32 Perforation

*See Replacement Screens for Options

POLY HIGH CAPACITY

Poly Filter House



PART NUMBER	DESCRIPTION
FTR 2POLYHOUSE	2" Poly Filter Housing w/port
FTR 2POLYSTAND	Stand for 2" Poly Filter House
FSI EGT30096B	Nitrile Lid Gasket

LINE STRAINERS (CONT.)

Y-LINE STRAINER

Inline 316 Stainless Steel Strainer

Strainer with 1/8" 304 Stainless Steel perforated screen



PART NUMBER	DESCRIPTION
INL 11/2SS-STR	1 1/2" FNPT strainer 1/8 Perforation
INL 11/2-STR-3	1 1/2" FNPT strainer 1/8 Perforation
INL 2-STR-3	2" FNPT strainer 1/8 Perforation

Banjo Polypropylene Strainer with Camlock Cap & *Replaceable 20 Mesh Stainless Steel Screen



PART NUMBER	DESCRIPTION
BAN LSQ-200-20	2" FNPT strainer

*See Replacement Screens for Options

Morrison 285 Cast Iron Strainer with

*Replaceable 20 Mesh Stainless Steel Screen



PART NUMBER	DESCRIPTION
MOR 285-1.5-6	1 1/2" FNPT strainer 6 Mesh
MOR 285-1.5-20	1 1/2" FNPT strainer 20 Mesh
MOR 285-2	2" FNPT strainer 20 Mesh
MOR 285-3-20	3" FNPT strainer 40 Mesh
MOR 285-3-40	3" FNPT Strainer 40 Mesh
MOR 285-3-6	3" FNPT Strainer 6 Mesh

DEF FILTERS

DEF Stainless Steel Filter



PART NUMBER	DESCRIPTION
DEF POLYFILTER	Polypropylene 3/4" NPT filter with 1 micron cartridge

DEF Poly Filter



PART NUMBER	DESCRIPTION
DEF SSFILTER	Stainless Steel 1" NPT filter with 1 micron cartridge

Banjo Polypropylene Strainer with *Replaceable 20 Mesh Stainless Steel Screen



PART NUMBER	DESCRIPTION
BAN LS-050-20	1/2" FNPT strainer 20 mesh
BAN LS-075-20	3/4" FNPT strainer 20 mesh
BAN LS-100-20	1" FNPT strainer 20 mesh
BAN LS-100-40	1" FNPT strainer 40 mesh
BAN LS-125-20	1 1/4" FNPT strainer 20 mesh
BAN LS-150-12	1 1/2" FNPT strainer 12 mesh
BAN LS-150-20	1 1/2" FNPT strainer 20 mesh
BAN LS-200-20	2" FNPT strainer 20 mesh
BAN LS-200-50	2" FNPT strainer 50 mesh
BAN LS-200-80	2" FNPT strainer 80 mesh
BAN LSM300-20	3" FNPT strainer 20 mesh



ACCESSORIES -
STRAINERS & FILTERS

LOADOUT SCREEN STRAINERS

ACCESSORIES -
STRAINERS & FILTERS

REPLACEMENT LOADOUT SCREENS

Stainless Steel High Capacity Loadout Screen



PART NUMBER	DESCRIPTION
MES 00071	2" FNPT Loadout Screen with .05" Perforation & 4" x 2" NPT PVC Bushing
MES 00045	2" FNPT Loadout Screen with 1/8" Perforation & 4" x 2" NPT PVC Bushing
MES 00031	2" FNPT Loadout Screen with 3/16" Perforation & 4" x 2" NPT PVC Bushing

TANK STRAINER

Manway Basket Strainer (304 Stainless Steel)



PART NUMBER	DESCRIPTION
MES00035	10" Manway Basket Strainer with 1/8" Perforation Screen. 9" Diameter x 14" Depth. 10" Seating Ring.

Stainless Steel Standard Loadout Screen



PART NUMBER	DESCRIPTION
MES 00071	2" FNPT X 16" Screen with .05" Perforation & 4" x 2" NPT PVC Bushing
MES 00068	3" FNPT X 22" Screen with .05" Perforation & 4" x 2" NPT PVC Bushing
MES 00065	4" FNPT X 22" Screen with 22" with 1/8" Perforation & 4" x 2" NPT PVC Bushing
MES 00004	6" FNPT X 28" Screen with 1/8" Perforation & 6" x 4" NPT PVC Bushing

REPLACEMENT SCREENS & FILTERS

MEI High Capacity Stainless Steel Strainer Screen



PART NUMBER	DESCRIPTION
MES 00032	3" & 4" Strainer 1/8 Screen
MES 00060	3" & 4" Strainer 3/16 Screen
MES 00080	3" & 4" Strainer 1/20 Screen

Banjo Stainless Steel Replacement Screens for Stainless Steel Y-Line Strainers



PART NUMBER	DESCRIPTION
BAN LSS312	12 Mesh Stainless Steel Replacement Screen for 3" NPT Strainer
BAN LSS320	20 Mesh Stainless Steel Replacement Screen for 3" NPT Strainer
BAN LSS350	50 Mesh Stainless Steel Replacement Screen for 3" NPT Strainer

Hayward Capacity Stainless Steel Strainer Screen



PART NUMBER	DESCRIPTION
MES 00021	4.25" X 5" Hayward basket with 1/8" Perforation Screen
MES 00016	4.25" X 5.5" Hayward basket with 1/8" Perforation Screen
MES 00051	4.25" X 5.5" Hayward basket with 3/16" Perforation Screen
MES 00074	4.25" X 5" Hayward basket with 0.050" Perforation Screen
MES 00026	6.375" X 9.5" Hayward basket with 1/8" Perforation Screen
MES 00054	4.25" X 5" Hayward basket with 3/16" perforation screen

Replacement Banjo Strainer Parts



PART NUMBER	DESCRIPTION
BAN LS150-C	1 1/2" & 2" Strainer End Cap
BAN MLS300-G	3" EPDM Cap Gasket
BAN MLS300CAP	3" Y Strainer Cap

INLINE

Inline Y-Line Stainless Steel Replacement Screen



PART NUMBER	DESCRIPTION
MES 00033	1/8 Perforation 304 Stainless Steel Strainer Screens
MES 00034	1/8 Perforation 304 Stainless Steel 2DX2.25L Strainer Screens

BANJO

Banjo Stainless Steel Replacement Screens for Polypropylene Y-Line Strainers



PART NUMBER	DESCRIPTION
BAN LS-180	80 Mesh Stainless Steel Replacement Screen for 1" - 1 1/4" NPT Strainers
BAN LS-206	6 Mesh Stainless Steel Replacement Screen for 1 1/2" - 2" NPT Strainers
BAN LS-212	6 Mesh Stainless Steel Replacement Screen for 1 1/2" - 2" NPT Strainers
BAN LS-220	20 Mesh Stainless Steel Replacement Screen for 1 1/2" & 2" NPT Strainers
BAN LS-250	50 Mesh Stainless Steel Replacement Screen for 1 1/2" - 2" NPT Strainers
BAN LS-280	80 Mesh Stainless Steel Replacement Screen for 1 1/2" - 2" NPT Strainers
BAN LS-320	20 Mesh Stainless Steel Replacement Screen for 3" NPT Strainer
BAN LS-308	8 Mesh Stainless Steel Replacement Screen for 3" LSM Strainers
BAN LS-350	50 Mesh Stainless Steel Replacement Screen for 3" LSM Strainers

REPLACEMENT SCREENS & FILTERS (CONT.)

MORRISON

Morrison 285 Y-Line Stainless Steel Replacement Screens



PART NUMBER	DESCRIPTION
MES 00042	3" Replacement Morrison Screen 1/8 Perforation
MOR 285-6-1.5	6 Mesh Stainless Steel Replacement Screen for 1 1/2" NPT Strainer
MOR 285-6-2	6 Mesh Stainless Steel Replacement Screen for 2" NPT Strainer
MOR 285-6-3	6 Mesh Stainless Steel Replacement Screen for 3" NPT Strainer
MOR 285-20-1.5	20 Mesh Stainless Steel Replacement Screen for 1 1/2" NPT Strainer
MOR 285-20-2	20 Mesh Stainless Steel Replacement Screen for 2" NPT Strainer
MOR 285-20-3	20 Mesh Stainless Steel Replacement Screen for 3" NPT Strainer

Replacement Morrison Strainer Parts



PART NUMBER	DESCRIPTION
MOR 285-11/2GK	1 1/2" Strainer Gasket
MOR 285-2GKTS	2" Cap Gasket
MOR 285-3GKTS	3" Cap Gasket
MOR 285-3YOKE	3" Iron Yoke

POLY FILTER BAGS

Poly Vessel Replacement Filter Bags



PART NUMBER	DESCRIPTION
FSI BPONG1X01	1 Micron Filter Bag
FSI BPONG10X01	10 Micron Filter Bag
FSI BPONG50X01	50 Micron Filter Bag
FSI BPONG100X0	100 Micron Filter Bag
FSI BPM0300X01	300 Micron Filter Bag

Proline Poly Vessel Replacement Filter Bags



PART NUMBER	DESCRIPTION
FSI PONG5P2P	5 Micron Filter Bag
FSI PONG10P2P	10 Micron Filter Bag
FSI PONG50P2P	50 Micron Filter Bag
FSI BNM0150P2P	150 Micron Filter Bag

DEF

DEF Filter Replacement Cartridge

1 Micron Filter Cartridge



PART NUMBER	DESCRIPTION
DEF 1MICRON	10"
DEF SSC1MIC20	20"

SAFETY EQUIPMENT

SPILL RESPONSE

Safety Goggles



PART NUMBER	DESCRIPTION
MSA 79124	Safety Goggle Non-Vented

PVC Gloves



PART NUMBER	DESCRIPTION
MSA PVCGLOVES	Black PVS Safety Gloves

Disposable Gloves



PART NUMBER	DESCRIPTION
LSS 12194PL	Box of 100 Disposable Gloves
MSA GLOVES	1 Pair of Nitrile Safety Gloves

Equipment Cleaner



PART NUMBER	DESCRIPTION
BAP EQCLEAN	Stain Away Equipment Cleaner 6 Gallons per Case

Hand Cleaners



PART NUMBER	DESCRIPTION
BAP HANDCLEAN	12 Tubes Hand Cleaner per Case
BAP SCRUBS	Scrubs-6 Buckets per Case

Ear Plugs



PART NUMBER	DESCRIPTION
SAF EARPLUG	Ear Plug-Box of 200 pairs

Respirator



PART NUMBER	DESCRIPTION
SAF RESPIRATOR	Dust respirator 20/box

ACCESSORIES - SAFETY EQUIPMENT

SPILL PREVENTION EQUIPMENT

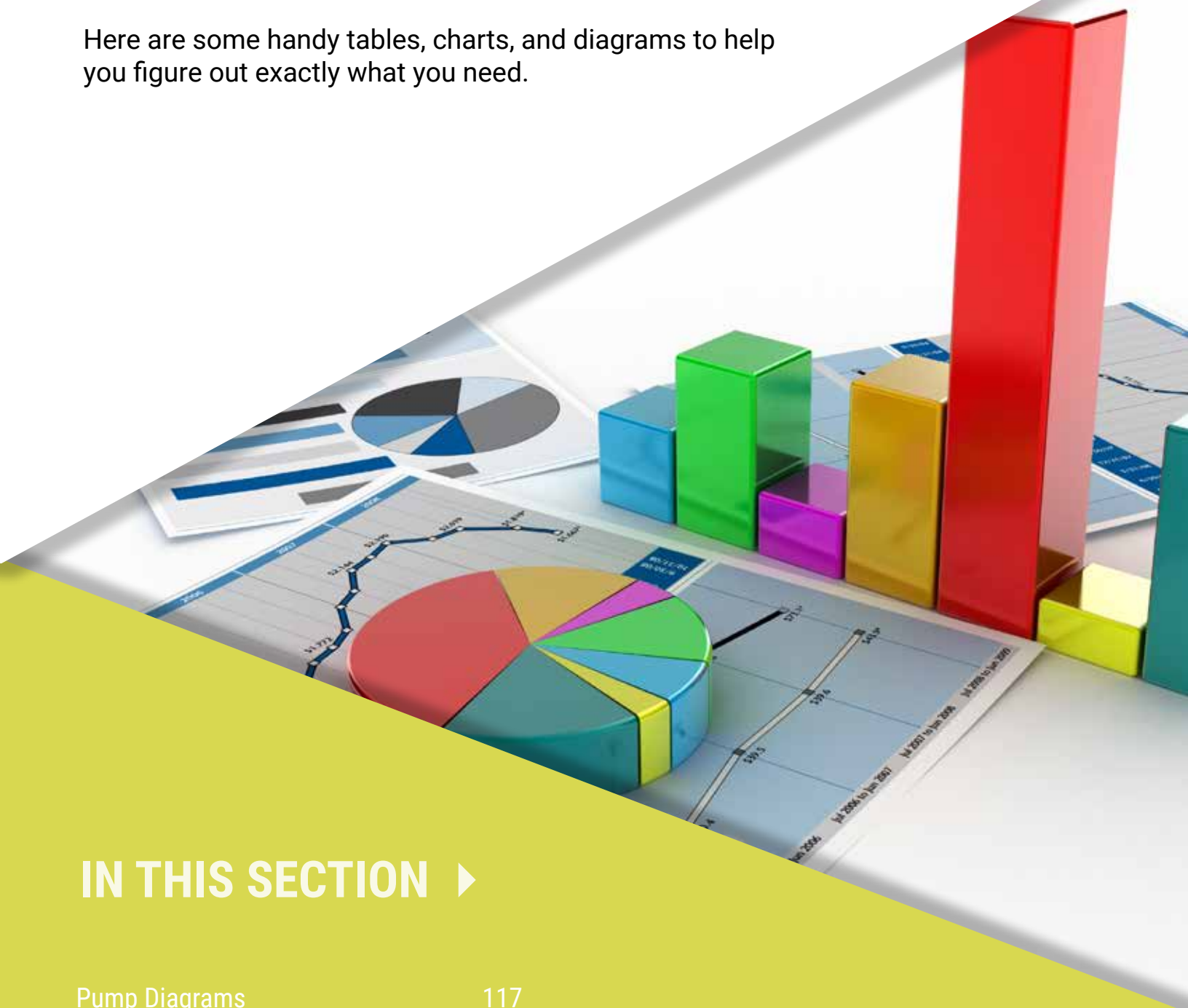
MEI manufactures innovated prefabricated solutions to prevent spills.

To learn more about these products, or just need a bucket, see page 20.



Charts & Diagrams

Here are some handy tables, charts, and diagrams to help you figure out exactly what you need.

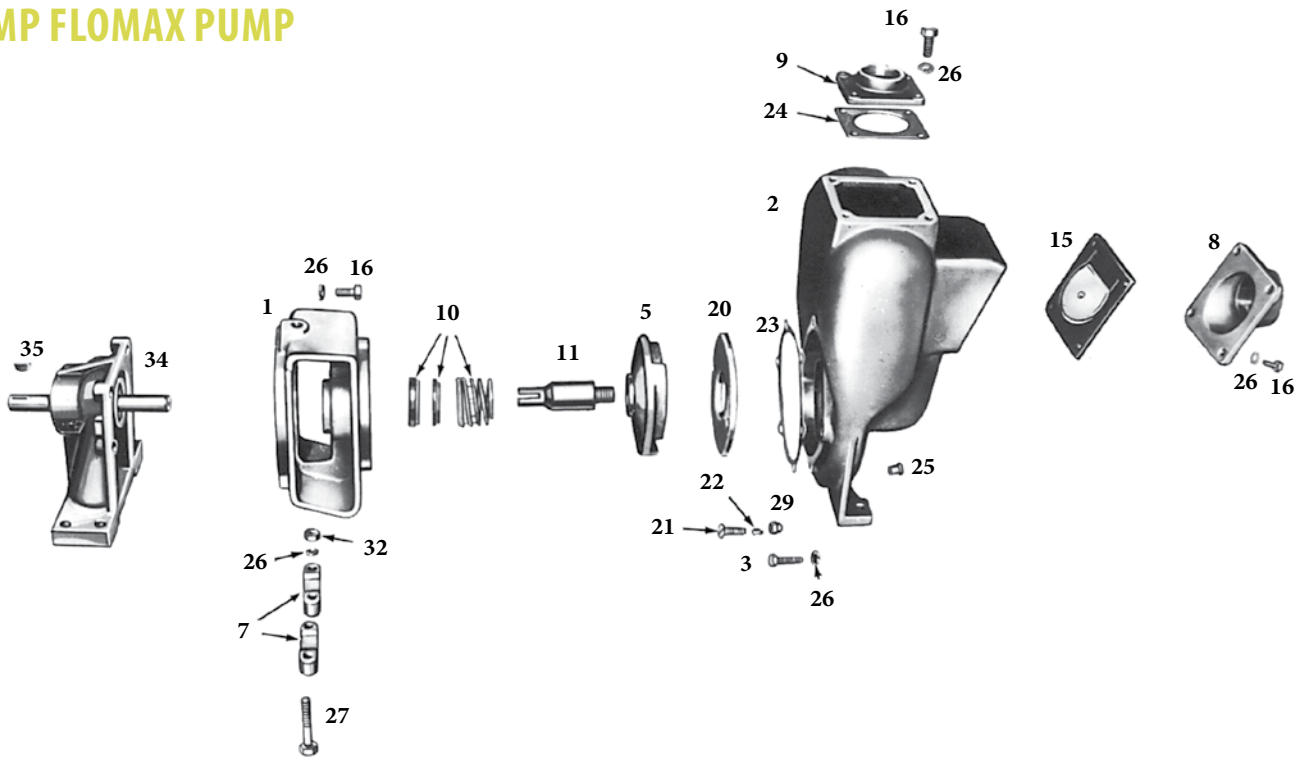


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PUMP DIAGRAMS

MP FLOMAX PUMP



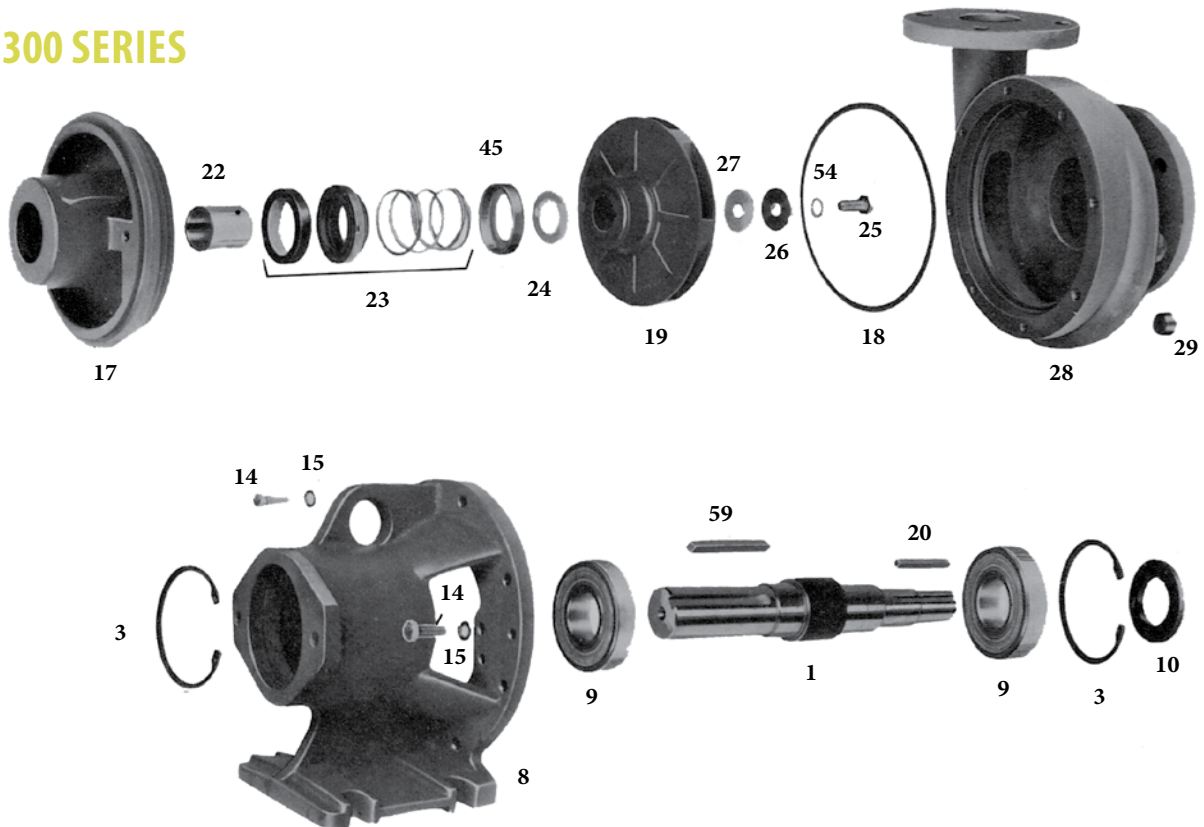
ITEM	PART NO. FLOMAX 5 & 8	PART NO. FLOMAX 10 & 15	DESCRIPTION
1	MPP 22247	MPP 22348	Adapter Cast Iron
2	MPP 22251	MPP 22351	Housing Assembly Cast Iron
3	MPP 24965	MPP 21260	Stud
+5	MPP 22293	MPP 23038	Impeller
7	MPP 23002	MPP 23039	Impeller Clamp Assembly
8	MPP 22263		Inlet Flange 1 1/2"
	MPP 22387		Inlet Flange 2"
		MPP 22369	Inlet Flange 2"
		MPP 22468	Inlet Flange 3"
9	MPP 22266		Outlet 1 1/2"
	MPP 22311		Outlet 2"
		MPP 22372	Outlet 2"
		MPP 22471	Outlet 3"
+10	MPP 22272	MPP 22361	Seal Assembly Self Lubricated
	MPP 26460	MPP 26461	Severe Service Seal
+11	MPP 22286	*	Drive Sleeve
15	MPP 23022	MPP 23040	Flapper Assy Nitrile (Nitrile)
	MPP 26097	MPP 26100	Flapper EPDM
16	MPP 21242	MPP 21291	Capscrew
+20	MPP 23024	MPP 22376	Wear Plate Kit
21	MPP 21249	MPP 21262	Flat Head Screw

ITEM	PART NO. FLOMAX 5 & 8	PART NO. FLOMAX 10 & 15	DESCRIPTION
22	MPP 21248	MPP 21271	Annular Gasket
+23	MPP 22255	MPP 22240	Gasket
24	MPP 22256	MPP 22358	Gasket Outlet Nitrile (Nitrile)
	MPP 25933	MPP 26101	Gasket Outlet EPDM
25	MPP 21267	MPP 21267	Pipe Plug
26	MPP 21238	MPP 21266	Lock Washer
27	MPP 21264	MPP 21269	Capscrew
29	MPP 21237	MPP 21263	Acorn Nut
32	MPP 21284	MPP 21268	Hex Nut
34	MPP 26142	MPP 26164	Pedestal Assembly
35	MPP 22321	MPP 22425	Woodruff Key
	MPP 22564	MPP 22566	Complete Overhaul Kit for Pedestal Pump

ITEM	PART NO. FLOMAX CC 2HP	PART NO. FLOMAX CC 3HP	DESCRIPTION
1	MPP 25904	MPP 25904	Adapter
5	MPP 27642	MPP 26780	Impeller
7	MPP 23002	MPP 23003	Clamp Assembly
1	MPP 22253 5/8" Bore	MPP 25664 7/8" Bore	Drive Sleeve

PUMP DIAGRAMS (CONT.)

MP 300 SERIES

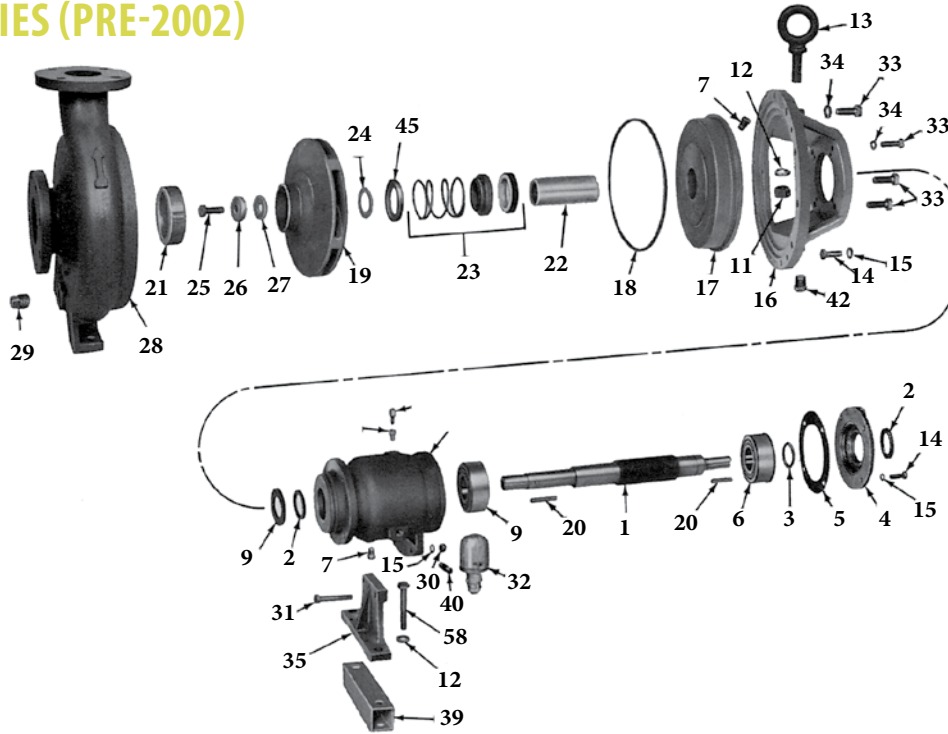


ITEM	PART NO.	DESCRIPTION
1	MPP 26999	Shaft- Key Way - Steel
3	MPP 26998	Snap Ring
8	MPP 26994	Pedestal Body - Cast Iron
9	MPP 26997	Ball Bearing
10	MPP 26680	Slinger Neoprene
14	MPP 21274	3/8" Cap Screw - Stainless Steel
15	MPP 21266	3/8" Lock Washer - Stainless Steel
17	MPP 26737	Adapter - Cast Iron
18	MPP 26744	Gasket
19	MPP 26788	7.0" Impeller - Ductile Iron
	MPP 27015	6.62" Impeller - Ductile Iron (Optional)
	MPP 27014	6.38" Impeller - Ductile Iron (Optional)
	MPP 27013	5.70" Impeller - Ductile Iron (Optional)
20	MPP 26796	1/4" Square Key - Stainless Steel
22	MPP 26996	Shaft Sleeve - Stainless Steel
23	MPP 26685	Seal Assembly Self-Lubricated
	MPP 26752	Sever Service Seal Self-Lubricated (Optional)
24	MPP 26684	Gasket - PTFE
25	MPP 22674	1/2" Bole - Stainless Steel
26	MPP 26675	Washer - Stainless Steel
27	MPP 26676	Gasket - PTFE

ITEM	PART NO.	DESCRIPTION
28	MPP 26733	Housing Cast Iron
29	MPP 22656	1/2" Pipe Plug - Stainless Steel
45	MPP 26972	Spring Keeper - Stainless Steel
54	MPP 27045	O-Ring (Included with Item 25)
59	MPP 27002	1/4" Square Key - Stainless Steel
N/S	MPP 27106	Major Service Kit - Includes Items: 20, 24, 25, 26, 27, Loctite 271, & Never-SEEZ
N/S	MPP 27240	Minor Service Kit Includes Items: 24, 27, 54, & Loctite 271

PUMP DIAGRAMS (CONT.)

MP 700 SERIES (PRE-2002)

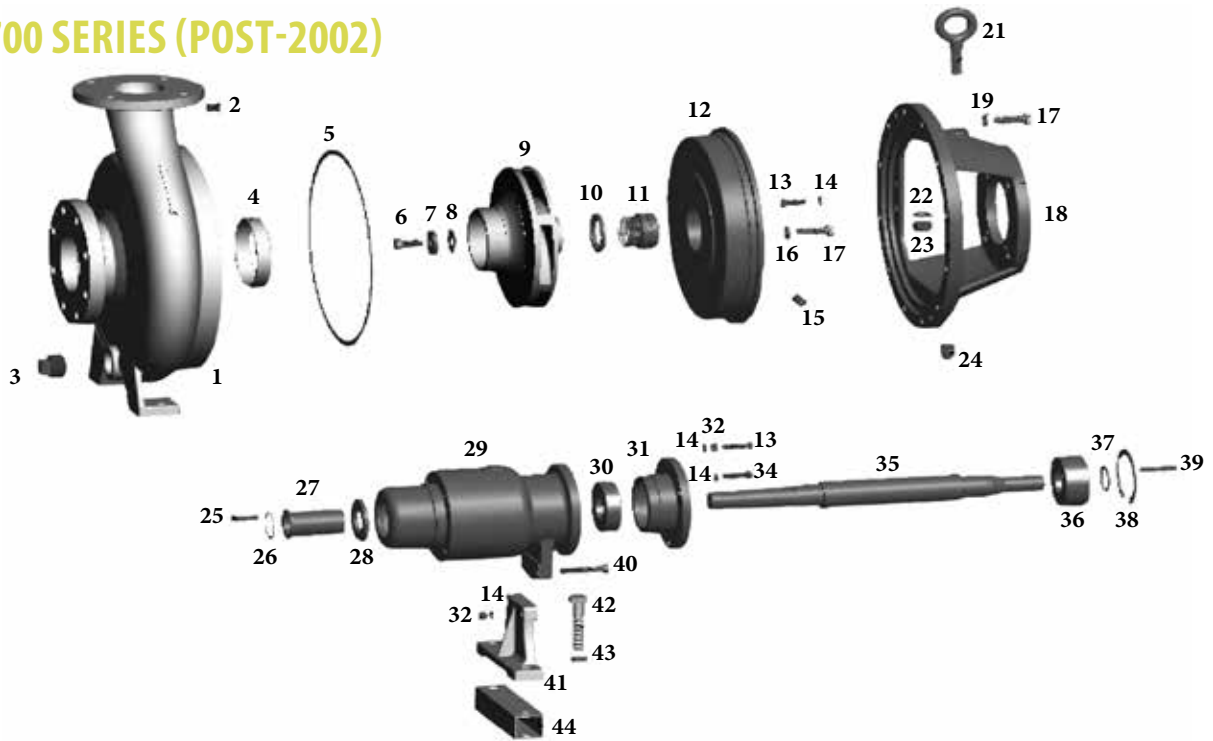


ITEM	PART NO.	DESCRIPTION
1	MPP 26677	Shaft - Steel
2	MPP 26687	Oil Seal
3	MPP 26690	Snap Ring
4	MPP 26665	Bearing Retainer - Cast Iron
5	MPP 26691	Gasket
6	MPP 26630	Ball Bearing (Includes Snap Ring)
7	MPP 21267	1/4" NPT Pipe Plug - Stainless Steel
8	MPP 26663	Bearing Housing - Cast Iron
9	MPP 26629	Ball Bearing
10	MPP 26680	Slinger - Neoprene
11	MPP 22461	5/8" Hex Nut - Steel
12	MPP 26258	5/8" Lock Washer - Steel
13	MPP 26686	Eye Bolt - Steel
14	MPP 21274	3/8" Cap Screw - Stainless Steel
15	MPP 21266	3/8" Lock Washer - Stainless Steel
16	MPP 27134	Adapter - Cast Iron
17	MPP 27155	Adapter - Ductile Iron
18	MPP 27146	Gasket
19	MPP 27144	10.0" Impeller - Ductile Iron
	MPP 27143	11.0" Impeller - Ductile Iron
	MPP 27141	12.0" Impeller - Ductile Iron
	MPP 27140	13.0" Impeller - Ductile Iron
20	MPP 26796	1/4" Square Key - Stainless Steel

ITEM	PART NO.	DESCRIPTION
21	MPP 26673	Wear Ring - Steel
22	MPP 26678	Shaft Sleeve - Stainless Steel
23	MPP 26685	Seal Assembly - Self-Lubricated
	MPP 26752	Severe Service Seal Self-Lubricated
24	MPP 27404	Gasket - Rulon - LD
25	MPP 22674	1/2" Steel Bolt - Stainless Steel
26	MPP 26675	Washer - Stainless Steel
27	MPP 27403	Gasket - Rulon - LD
28	MPP 33486	Housing - Ductile Iron
29	MPP 27205	1/4" Pipe Plug
30	MPP 21265	3/8" Hex Nut - Stainless Steel
31	MPP 21275	3/8" Cap Screw - Stainless Steel
32	MPP 26688	Constant Level Oiler
33	MPP 27147	1/2" Cap Screw - Stainless Steel
34	MPP 21254	1/2" Lock Washer - Stainless Steel
35	MPP 26667	Bearing Housing Support - Cast Iron
36	MPP 26689	Breather Tube
39	MPP 27157	Spacer (Bearing Housing Support)
40	MPP 26693	1/4" NPT Pipe Nipple
41	MPP 26692	1/8" x 1/4" Reducer Bushing
42	MPP 22656	1/2" NPT Pipe Slug - Stainless Steel
45	MPP 26972	Spring Keeper - Stainless Steel
46	MPP 27248	5/8" Cap Screw - Steel

PUMP DIAGRAMS (CONT.)

MP 700 SERIES (POST-2002)

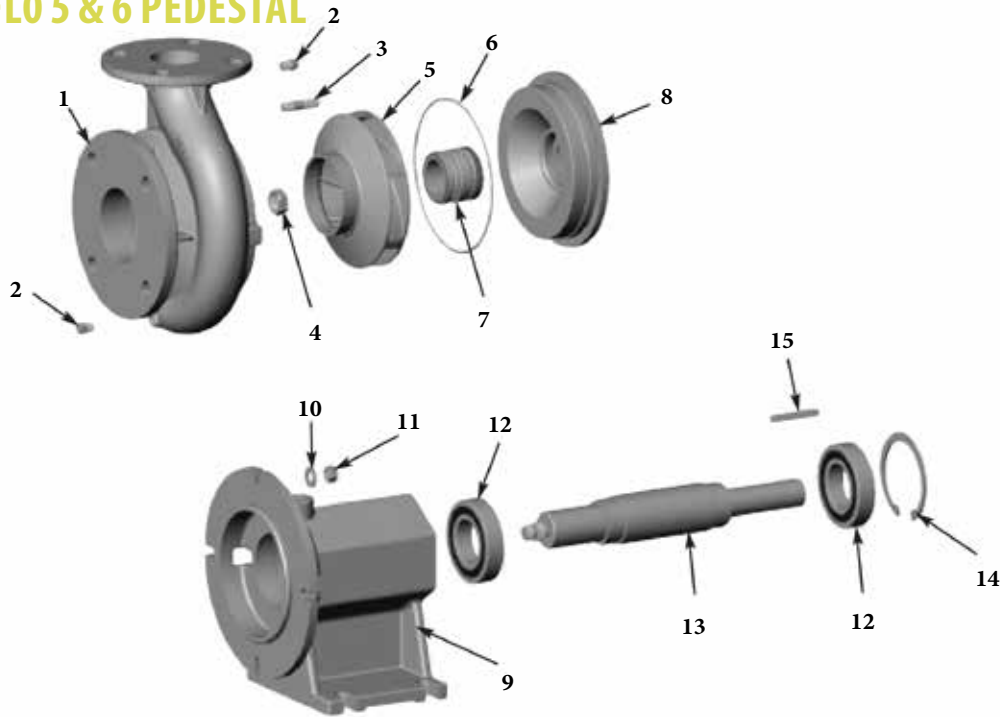


ITEM	PART NO.	DESCRIPTION
1	MPP 27159	Housing Assembly
2	MPP 41475	Drain Plug 1/4"
3	MPP 27205	Drain Plug 1 1/4"
4	MPP 26673	Wear Ring
5	MPP 27146	Gasket - Housing
6	MPP 22674	Seelbolt
7	MPP 26675	Washer - Impeller
8	MPP 27403	Gasket - Rulon
9	MPP 27140	Impeller 13"
9	MPP 27141	Impeller 12"
9	MPP 27143	Impeller 11"
9	MPP 27144	Impeller 10"
10	MPP 26972	Spring Holder
11	MPP 26685	Seal - Carbon/Ceramic/FKM
11	MPP 26752	Seal - Severe Service
12	MPP 34179	Seal Housing
13	MPP 21274	Capscrew 3/8-16 x 1 1/4"
14	MPP 21266	Washer 1/8 x 3/8"
15	MPP 41475	Drain Plug
16	MPP 21254	Washer
17	MPP 27147	Capscrew 1/2-13 x 1 3/4"
18	MPP 27134	Adaptor
19	MPP 21254	Lock washer 1/2 x 7/8"

ITEM	PART NO.	DESCRIPTION
21	MPP 26686	Eye Bolt
22	MPP 26258	Washer
23	MPP 22461	Nut 5/8-11
24	MPP 41479	Drain Plug 1/2"
25	MPP 25299	Key 1/4 Sq. x 1 1/2"
26	MPP 33472	O-Ring
27	MPP 33059	Shaft Sleeve
28	MPP 26680	Slinger
29	MPP 33056	Bearing Body
30	MPP 33053	Ball Bearing - Single
31	MPP 33051	Retainer - Bearing
32	MPP 21268	Hexnut 3/8-16
34	MPP 43926	Capscrew 3/8-16 x 1 1/2"
35	MPP 33052	Shaft
36	MPP 33054	Ball Bearing - Double
37	MPP 33057	Snap Ring 1.43 x .109
38	MPP 33058	Snap Ring 3.936 x .109
39	MPP 26796	Key 1/4 x 1/4 x 2 1/8"
40	MPP 21275	Capscrew 3/8-16 x 2 1/2"
41	MPP 26667	Support - Bearing Housing
42	MPP 27248	Capscrew 5/8-18
43	MPP 27258	Washer 5/8"
44	MPP 27157	Spacer

PUMP DIAGRAMS (CONT.)

MP CHEMFLO 5 & 6 PEDESTAL



ITEM	PART NO.	QTY.	DESCRIPTION
1	MPP 31098	1	2 x 1.5 Volute - Stainless Steel (CHEM 5)
	MPP 31469	1	3 x 2 Volute - Stainless Steel (CHEM 6)
2	MPP 21255	2	1/8" NPT Pipe Plug - Stainless Steel
3	MPP 33161	3	3/8-16 x 2" Stud - Stainless Steel
4	MPP 29194	1	5/8 - 18" Hex Jam Nut - Stainless Steel
	MPP 29194	1	3/8-18 Hex Jam Nut
5	MPP 31461	1	4.75" Impeller - Stainless Steel
	MPP 31096	1	6.18" Impeller - Stainless Steel (CHEM 5)
	MPP 31467	1	6.18" Impeller - Stainless Steel (CHEM 6)
	MPP 31938	1	4.50" Impeller - Stainless Steel
	MPP 31668	1	5.10" Impeller - Stainless Steel
	MPP 31780	1	5.60" Impeller - Stainless Steel
	MPP 31903	1	5.90" Impeller - Stainless Steel
6	MPP 31234	1	O-Ring - PTFE
	MPP 31233	1	O-Ring - FKM
	MPP 33757	1	O-Ring - EPDM
7	MPP 26565	1	1.5" Mechanical Seal - T-2100
	MPP 31347	1	1.5" Mechanical Seal
	MPP 35914	1	1.5" Mechanical Seal
	MPP 31374	1	1.5" Mechanical Seal

ITEM	PART NO.	QTY.	DESCRIPTION
8	MPP 31093	1	Seal Housing - Stainless Steel
9	MPP 31656	1	Bearing Housing
10	MPP 28053	4	3/8" Washer - Stainless Steel
11	MPP 21268	4	3/8-16 Hex Nut - Stainless Steel
12	MPP 31804	2	Ball Bearing
13	MPP 31802	1	Drive Shaft - Stainless Steel
14	MPP 31803	1	Snap Ring
15	MPP 33232	1	1/4" Square Key - Stainless Steel
	MPP 37881	1	Slinger

REFERENCE CHARTS

STANDARD PIPE DATA

NOMINAL DIAMETER INCHES	ACTUAL OUTSIDE DIAMETER INCHES	ACTUAL INSIDE DIAMETER INCHES	INSIDE AREA SQUARE INCHES	WEIGHT PER FOOT POUNDS	LENGTH IN FEET CONTAINING ONE U.S. GALLONS	LENGTH IN FEET CONTAINING 1 CUBIC FOOT	U.S. GAL IN 1 LINEAL FOOT	LBS OF WATER IN 1 LINEAL FOOT
1/2	0.840	0.622	0.304	0.846	63.322	473.910	0.0158	0.1316
3/4	1.050	0.824	0.533	1.119	36.116	270.030	0.0277	0.2309
1	1.315	1.049	0.864	1.660	22.280	166.620	0.0449	0.3742
1 1/4	1.660	1.380	1.496	2.244	12.867	96.275	0.0777	0.6477
1 1/2	1.900	1.610	2.036	2.684	9.454	70.733	0.1058	0.8816
2	2.375	2.067	3.356	3.609	5.736	42.913	0.1743	1.4530
2 1/2	2.875	2.469	4.788	5.725	4.020	30.077	0.2487	2.0732
3	3.500	3.068	7.393	7.486	2.593	19.479	0.3840	3.2012
3 1/2	4.000	3.548	9.887	9.001	1.947	14.565	0.5136	4.2812
4	4.500	4.026	12.730	10.665	1.512	11.312	0.6613	5.5125
4 1/2	5.000	4.506	15.947	12.392	1.207	9.030	0.8284	6.9053
5	5.563	5.047	20.006	14.448	0.962	7.198	1.0398	8.6629
6	6.625	6.065	28.890	18.755	0.666	4.984	1.5008	12.5101
7	7.625	7.023	38.738	23.271	0.497	3.717	2.0124	16.7743
8	8.625	7.981	50.027	28.221	0.384	2.878	2.5988	21.6627

PRESSURE LOSS (POUNDS) PRESS PER 100 FEED OF SMOOTH BORE RUBBER HOSE

Multiply pounds pressure by 2.31 to obtain friction loss in feet

U.S. GAL / MIN	ACTUAL INSIDE DIAMETER IN INCHES							
	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
15	30.0	8.9	2.5	1.1	0.4	0.1		
20	53.0	14.0	4.3	1.8	0.7	0.2		
25	79.0	22.0	6.5	2.9	1.0	0.3		
30	112.0	31.0	9.2	4.0	1.4	0.4	.01	
40		53.0	15.0	6.7	2.4	0.6	.03	
50			24.0	10.0	3.6	1.0	0.05	
60			35.0	14.0	5.1	1.4	0.6	
70			45	19.0	6.6	1.8	0.8	
80			58.0	24.0	8.6	2.3	1.1	
90			71.0	30.0	11.0	3.0	1.4	0.3
100			88.0	37.0	12.5	3.5	1.7	0.4
125			132.0	55.0	20.0	5.1	2.5	0.6
150			183.0	78.0	27.0	6.6	3.5	0.7
175				100.0	37.0	8.6	4.6	1.1
200				133.0	46.0	11.0	5.9	1.4

U.S. GAL / MIN	ACTUAL INSIDE DIAMETER IN INCHES							
	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
250					70.0	12.5	9.1	2.1
300					95.0	20.0	12.0	2.9
350					126.0	27.0	17.0	4.0
400						37.0	21.0	5.1
500						46.0	32.0	7.4
600						70.0	46.0	10.0
700						95.0	62.0	13.0
800						126.0	79.0	17.0
900							97.0	22.0
1000							116.0	27.0
1250							170.0	43.0
1500								61.0
1750								80.0
2000								100.0

REFERENCE CHARTS (CONT.)

GALLONS IN ROUND VERTICAL TANKS - FOR 1 FT IN DEPTH

DIA. OF TANKS		# OF U.S. GALS.	CU. FT. & AREA IN FT ²
FT	IN		
1	0	5.87	0.785
1	1	6.89	0.922
1	2	8.00	1.069
1	3	9.18	1.227
1	4	10.44	1.396
1	5	11.79	1.576
1	6	13.22	1.767
1	7	14.73	1.969
1	8	16.32	2.182
1	9	17.99	2.405
1	10	19.75	2.640
1	11	21.58	2.885
2	0	23.50	3.142
2	1	25.50	3.409
2	2	27.58	3.687
2	3	29.74	3.876
2	4	31.99	4.276
2	5	34.31	4.587
2	6	36.72	4.909
2	7	39.21	5.241
2	8	41.78	5.585
2	9	44.48	5.940
2	10	47.16	6.305
2	11	49.98	6.681
3	0	52.88	7.069
3	1	55.86	7.467
3	2	58.92	7.876
3	3	62.06	8.296
3	4	65.28	8.727
3	5	68.58	9.168
3	6	71.97	9.621
3	7	75.44	10.085
3	8	78.99	10.559
3	9	82.62	11.045
3	10	86.33	11.541
3	11	90.13	12.048
4	0	94.00	12.566
4	1	97.96	13.095
4	2	102.00	13.635
4	3	106.12	14.186
4	4	110.32	14.748

DIA. OF TANKS		# OF U.S. GALS.	CU. FT. & AREA IN FT ²
FT	IN		
4	5	114.61	15.321
4	6	118.97	15.90
4	7	123.42	16.50
4	8	127.95	17.10
4	9	132.56	17.72
4	10	137.25	18.35
4	11	142.02	18.99
5	0	146.88	19.63
5	1	151.82	20.29
5	2	156.83	20.97
5	3	161.93	21.65
5	4	167.12	22.34
5	5	172.38	23.04
5	6	177.72	23.76
5	7	183.15	24.48
5	8	188.66	25.22
5	9	194.25	25.97
5	10	199.92	26.73
5	11	205.67	27.49
6	0	211.51	28.27
6	3	229.50	30.68
6	6	248.23	33.18
6	9	267.69	35.78
7	0	287.88	38.48
7	3	308.81	41.28
7	6	330.48	44.18
7	9	352.88	47.17
8	0	376.01	50.27
8	3	399.88	53.46
8	6	424.48	56.75
8	9	449.82	60.13
9	0	475.89	63.62
9	3	502.70	67.20
9	6	530.24	70.88
9	9	558.51	74.66
10	0	587.52	78.54
10	3	617.26	82.52
10	6	647.74	86.59
10	9	678.95	90.76
11	0	710.90	95.03
11	3	743.58	99.40
11	6	776.99	103.87
11	9	811.14	108.43

DIA. OF TANKS		# OF U.S. GALS.	CU. FT. & AREA IN FT ²
FT	IN		
12	0	846.03	113.10
12	3	881.65	117.86
12	6	918.00	122.72
12	9	955.09	127.68
13	0	992.91	132.73
13	3	1031.50	137.89
13	6	1070.80	143.14
13	9	1110.80	148.49
14	0	1151.50	153.94
14	3	1193.00	159.48
14	6	1235.30	165.13
14	9	1278.20	170.67
15	0	1321.90	176.71
15	3	1366.40	182.65
15	6	1411.50	188.69
15	9	1457.40	194.83
16	0	1504.10	201.06
16	3	1551.40	207.39
16	6	1599.50	213.82
16	9	1648.40	220.35
17	0	1697.90	226.98
17	3	1748.20	233.71
17	6	1799.30	240.53
17	9	1851.10	247.45
18	0	1903.60	254.47
18	3	1956.80	261.59
18	6	2010.80	268.80
18	9	2065.50	276.12
19	0	2120.90	283.53
19	3	2177.10	281.04
19	6	2234.00	298.64
19	9	2291.70	306.35
20	0	2350.10	314.16
20	3	2409.20	322.06
20	6	2469.10	330.06
20	9	2529.60	338.16
21	0	2591.00	346.36
21	3	2653.00	354.66
21	6	2715.80	363.05
21	9	2779.30	371.54
22	0	2843.60	380.13
22	3	2908.60	388.82

DIA. OF TANKS		# OF U.S. GALS.	CU. FT. & AREA IN FT ²
FT	IN		
22	6	2974.30	397.61
22	9	3040.80	406.49
23	0	3108.00	415.48
23	3	3175.90	424.56
23	6	3244.60	433.74
23	9	3314.00	443.01
24	0	3384.10	452.39
24	3	3455.00	461.86
24	6	3526.60	471.44
24	9	3598.90	481.11
25	0	3672.00	490.87
25	3	3745.80	500.74
25	6	3820.30	510.71
25	9	3895.60	520.77
26	0	3971.60	580.93
26	3	4048.40	541.19
26	6	4125.90	551.55
26	9	4204.10	562.00
27	0	4283.00	572.66
27	3	4362.70	583.21
27	6	4443.10	593.96
27	9	4524.30	604.81
28	0	4606.20	615.75
28	3	4688.80	626.80
28	6	4772.10	637.94
28	9	4856.20	649.18
29	0	4941.00	660.52
29	3	5026.60	671.96
29	6	5112.90	683.49
29	9	5199.90	695.13
30	0	5287.70	706.86
30	3	5376.20	718.69
30	6	5465.40	730.62
30	9	5555.40	742.64
31	0	5646.10	754.77
31	3	5737.50	766.99
31	6	5829.70	779.31
31	9	5922.60	791.73
32	0	6016.20	804.25
32	3	6110.60	816.86
32	6	6205.70	829.58
32	9	6301.50	842.39



CHARTS & DIAGRAMS

FORMULAS

PIPE

	FORMULA	FORMULA DESCRIPTION
Pipe diameter to capacity	$2D=4C$	Doubling the diameter of a pipe, increases its capacity by 4

PUMPS

	FORMULA	FORMULA DESCRIPTION
Lbs of pressure to ft of head	1 lb of pressure = 2.31 ft of head	Multiply pounds of pressure by 2.31 for feet of head, or divide feet of head by 2.31 for pounds of pressure

WATER

	FORMULA	FORMULA DESCRIPTION
Pressure in lbs/in ² of a column of water	$cH \times .434$	Multiply column height by .434
Gallons to lbs & in ³	1 gal = 8.33lbs = 231 in ³ @ 67° F	At 67° Fahrenheit, 1 gallon of water weighs 8 1/3 lbs and is 231 cubic inches
Ft ³ to lbs, in ³ , & gal	1 ft ³ = 62.33lbs = 7.48 gal = 1,728 in ³ @ 67° F	At 67° Fahrenheit, 1 cubic foot of water weighs 62 1/3 lbs, is 7.48 gallons, and is 1,728 cubic inches

GALLONS TO BARRELS

	FORMULA	FORMULA DESCRIPTION
Water	31.5 gal = 1 barrel	31 1/2 gallons of water equals one barrel
Crude oil	42 gal = 1 barrel	42 gallons of crude oil equals one barrel
Refined oil	50 gal = 1 barrel	50 gallons of refined oil equals one barrel

TANK CAPACITIES

	FORMULA	FORMULA DESCRIPTION
Rectangular tank capacity in US gal (dimensions in inches)	$(L \times W \times H)/231$	Multiply length by width by height and divide answer by 231
Cylinder tank capacity in US gal (dimensions in inches)	$D^2 \times L \times .0034$	Square the diameter and multiply by the length and .0034
US gal per foot in depth (dimensions in inches)	$D^2 \times .0408$	Square the diameter and multiply by .0408
US gal per foot in depth (dimensions in feet)	$D^2 \times 5.875$	Square the diameter and multiply by 5.875

CIRCLES

	FORMULA	FORMULA DESCRIPTION
Area of a circle	$D \times .7854$	Multiply diameter by .7854
Circumference of a circle	$D \times 3.1416$	Multiply the diameter by 3.1416 (π)
Diameter of a circle	$C \times .31831$	Multiply the circumference by .31831

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AIR MC12012	83	ASY RPB00252	20	BAN LS-320	113	BND T300	104	CLV 6VALVE-B	76
AIR MC12038	83	BAN 150(200)K6	99	BAN LS-350	113	BRD 1	72	CLV 6VALVE-LUG	76
AIR MC14014	83	BAN 150A-90	98	BAN LSM300-20	111	BRD 3/4	72	CLV 8CVSS	72
AIR MC14018	83	BAN 150C-90	98	BAN LSQ-200-20	111	BRV 0820038119	80	CLV 8ELECTRIC	78
AIR MC14038	83	BAN 150F-90	98	BAN LSS312	113	CAM A-AL-***	98	CLV 8LKHANDLE	76
AIR MC38014	83	BAN 200A-90	98	BAN LSS320	113	CAM A-SS-***	98	CLV 8STDHANDLE	76
AIR MC38038	83	BAN 200C-90	98	BAN LSS350	113	CAM B-ALS-***	98	CLV 8VALVEAA	78
AIR MC53214	83	BAN 200D-90	98	BAN M200CPG	105	CAM B-SS-***	98	CLV 8VALVE-B	76
AIR MC53218	83	BAN 200F-90	98	BAN M200MPT	105	CAM C-ALS-***	98	CLV 8VALVE-LUG	76
AIR ME14014	83	BAN 200P	99	BAN M220D	105	CAM C-SS-***	98	CLV 10CVSS	72
AIR ME14018	83	BAN 200POSS	56	BAN M220MPT	105	CAM D-ALS-***	98	CLV 10LKHANDLE	76
AIR ME38014	83	BAN 205PB	56	BAN M300A	105	CAM DC-ALS-***	98	CLV 10VALVE-B	76
AIR ME380380	83	BAN 300K	99	BAN M300BRB	105	CAM DC-SS-***	98	CLV 12VALVE-B	76
AIR MT12012	83	BAN 300P	99	BAN M300BRB45	105	CAM DP-AL-***	98	CLV 16VALVE-B	76
AIR MT12038	83	BAN 300-PB/SS	56	BAN M300 BRB90	105	CAM DP-SS-***	98	CLV 16VALVELUG	76
AIR MT14014	83	BAN ***-A	98	BAN M300CPG7	105	CAM D-SS-***	98	CLV 44005-05A	78
AIR MT14018	83	BAN ***-B	98	BAN M300CPG45	105	CAM E-AL-***	98	CLV 44200-10A	78
AIR MT38014	83	BAN ***-C	98	BAN M300CPG90	105	CAM E-SS-***	98	CLV 44300-20A	78
AIR MT53214	83	BAN ***-CAP	98	BAN M300FPT	105	CAM F-AL-***	98	DBL ***GASKET	96
AIR MT53218	83	BAN ***-D	98	BAN M300 MPT	105	CAM F-SS-***	98	DBL***TEFGKT-FF	96
AIR RD0025-25	79	BAN DM150A	75	BAN M300TEE	105	CBM 109-16-SS	67	DEF1D-HOSE	101
AIR TEC14014	84	BAN DM150D	75	BAN M303D	105	CBM 109-20-SS	67	DEF 1MICRON	114
AIR TEC380380	84	BAN DM200A	75	BAN MLS300CAP	113	CBM 2097-16-AL	67	DEF D3/4X15SPP	102
AIR TP120	84	BAN DM200D	75	BAN MLS300-G	113	CBM 2097-16-CS	67	DEF D3/4X18SPP	102
AIR TP140	84	BAN EVX101	78	BAN MV200BL	75	CBM 2097-16-SS	67	DEF D3/4X25S	102
AIR TP380	84	BAN EVX151	78	BAN MV200SL	75	CBM 2097-20-AL	67	DEF D3/4X25SPP	102
AIR TP532	84	BAN EVX221	78	BAN MV220BL	75	CBM 2097-20-SS	67	DEF***HOSE	101
AIR TRC120380	83	BAN EVX300	78	BAN MV220SL	75	CHM 682/51AE-2	35	DEF POLYFILTER	111
AIR TRC380140	83	BAN ***-F	98	BAN MVSF300	105	CHM 682/53AE-2	35	DEF REEL-25	102
AIR TUBINGX500	82	BAN ***-F	98	BAN ***-PL	98	CHM 682CF51SSM	35	DEF REEL-25BSP	102
AIR UC120	83	BAN FC100	105	BAN V050	74	CHM 682CF51SVM	35	DEF ***SHOS	101
AIR UC140	83	BAN FC200	105	BAN V075	74	CHM 682CF53SSM	35	DEF***S-HOSE	101
AIR UC380	83	BAN FC220	105	BAN V100	74	CHM 682CF53SVM	35	DEF SSC1MIC20	114
AIR UC532	83	BAN FC300	105	BAN V100FP	74	CHM 682/D51AE2	35	DEF SSFILTER	111
AIR ULC120	84	BAN ***G	99	BAN V125	74	CHM 682/D53AE2	35	DEM 4021-4M	58
AIR ULC140	84	BAN HB-100	103	BAN V150	74	CHM AE075SS	42	DEM 4021-5M	58
AIR ULC380	84	BAN HB-100-90	103	BAN V200	74	CHM SS-SYS-1	34	DEM 4021-6M	58
AIR ULC532	84	BAN HB-125	103	BAN V200FP	74	CKA CON100S3.5	72	DEM 402110PO	58
AIR UTC120	84	BAN HB-150	103	BAN V300	74	CKA CON100SS-V	72	DEM 402185/8PO	58
AIR UTC140	84	BAN HB-150-90	103	BAN V300FP	74	CLV 2-3LKHANDL	76	DEM 402191/2PO	58

DIX 400	104	DIX TN88	103	FEP MP15SSDS10	44	FSF ***B	93	HOS PVC3	100
DIX 500GTCABU	87	DLM FUSION-4	90	FEP MP15SSDS15	44	FSF LAPJOINT***	93	HOS PVC3/4	100
DIX 525	104	DLM FUSION-6	90	FEP MP-19	44	FSF R***	92	HOS PVC4	100
DIX 675	104	DPF BR***	91	FEP MP19/5B-10	44	FSF ***S	97	HOS PVC6	100
DIX 769	104	DPF CROSS***	91	FEP MP19/5B-15	44	FSI BNM0150P2P	114	HOS PVC11/2	100
DIX ATCT30	87	DPF FA***	91	FEP MP19/D-10	44	FSI BPM0300X01	114	HOS PVC11/4	100
DIX ATCT40	87	DPF FA***-BEV	91	FEP MP19/D-15	44	FSI BPONG1X01	114	HOS PVCD2	101
DIX DB200SS-A	70	DPF L***	91	FEP MP19DS-HYD	46	FSI BPONG10X01	114	HOS PVCD3	101
DIX DB200SS-C	70	DPF L***45	91	FEP MP19-SS	44	FSI BPONG50X01	114	HOS PVCD4	101
DIX G9	87	DPF R***	91	FEP MP19-SS-15	44	FSI BPONG100X0	114	HOS PVCD6	101
DIX G10	87	DPF T***	91	FEP MP19SS-HYD	46	FSI EGT30096B	110	HOS SG1/2X3/4	101
DIX HBA-2T	103	DPF TF***-SS	91	FEP MP-20	45	FSI PONG5P2P	114	HOS SG1/4X3/8	101
DIX HBA-3/4T	103	DPF TF***SSHB	91	FEP MP-21	45	FSI PONG10P2P	114	HOS SG1X11/4	101
DIX HBA-3T	103	DPF Y***	91	FEP MP120-51	47	FSI PONG50P2P	114	HOS SG2X21/2	101
DIX HBA-11/2T	103	DPI DURAMETER	40	FEP MP120-53	47	FSL ***	92	HOS SG3/4X1	101
DIX HBI-2T	103	DPP 6X10DW	90	FEP MP-300-15	47	FSN ***	93	HOS SG3/8X5/8	101
DIX HBI-3/4T	103	DPP 1000-***	90	FEP MP-300-20	47	FSN ***CL	93	HOS SG11/2X2	101
DIX HBI-3T	103	EBR EPPD-3	68	FEP MP-300-25	47	FST ***	92	HOS UHMW1	100
DIX HBI-4T	103	EHM 5P300-1.5	39	FEP MP-531	45	FSU ***	92	HOS UHMW2	100
DIX HBI-11/2T	103	EHM 5P300-2	39	FEP MP-533	45	FTR 2POLYHOUSE	110	HOS UHMW3	100
DIX HBI-11/4T	103	EHM 5P300-3	39	FEP MP-700-25	47	FTR 2POLYSTAND	110	HOS UHMW3/4	100
DIX HBS-1/2T	103	EHM 5P300-4	39	FEP MP-700-30	47	GAD ACF-1	66	HOS UHMW4	100
DIX HBS-1/4T	103	EHM 5P300CT-2	38	FEP MPCF3-3H1C	47	GAD ACF-2	66	HOS UHMW11/2	100
DIX HBS-1T	103	EHM 5P300CT-3	38	FEP MPCF3-3H3C	47	GAD ACF-11/2	66	HOS UHMW11/4	100
DIX HBS-2T	103	EHM 5P300CT-4	38	FEP MPCFL1.5-1	47	GEM SSFLTSWT	66	HOS WSD1	100
DIX HBS-3/4T	103	ELK 220SQ-2B	69	FEP MPCFL1.5-3	47	GPC AP-12	68	HOS WSD2	100
DIX HBS-3/8T	103	ELK TUFFSTK120	69	FEP MPCFL5-1	47	GRP 83C2BPUMP	56	HOS WSD3	100
DIX HBS-3T	103	ELL 5GALTEST	43	FEP MPCFL5-3	47	GRP 84A2B	56	HOS WSD4	100
DIX HBS-4T	103	FEP 1424-10-25	49	FEP MPCFL-6-10	47	GSI SSFLEX2X12	102	HOS WSD 11/2	100
DIX HBS-6T	103	FEP 4021-3M-15	49	FEP MPCFL-6-15	47	GSI SSFLEX2X18	102	HOV SM275-WV	69
DIX HBS-11/2T	103	FEP 4021-3M-20	49	FEP MPCFL-6-20	47	GSI SSFLEX3X12	102	HUM M410-70	80
DIX HBS-11/4T	103	FEP 4021-4M-25	49	FEP MPF8DW/5HN	46	GSI SSFLEX3X18	102	ICS 12TANK	14
DIX HBS-21/2T	103	FEP 4021-5M-40	49	FEP MPF8HN5EPD	46	GSI SSFLEX3X24	102	ICS 16VAL/ENET	14
DIX HBS-***P	97	FEP 4021-6M-40	49	FEP MPF15-8HN	46	GSI SSFLEX4X12	102	ICS 24-7GATE2	11
DIX LHW	87	FEP BAN-19-SS	45	FEP MPF15-13HN	46	GSI SSFLEX4X18	102	ICS 24-7-START	11
DIX RTCA30	87	FEP BANSS2"5EL	46	FEP MPF15D13HN	46	GSI SSFLEX4X24	102	ICS 24VAL/ENET	14
DIX RTCA40	87	FEP BANSS2X2-5	46	FEP MPFLC5-1E	47	GSI SSFLEX6X12	102	ICS 240C-REMETS	11
DIX TBC150	104	FEP D-70SSJ20	49	FEP MPFLC5-3E	47	GSI SSFLEX6X18	102	ICS 247PRN-ENC	11
DIX TBC175	104	FEP D-A40DIJ25	49	FEP ROP2835-1	51	GSI SSFLEX6X24	102	ICS 2873M-1A	15
DIX TBC188	104	FEP D-A40SSJ25	49	FEP ROP2835-3	51	GSI SSFLEX6X36	102	ICS 2873M-2A	15
DIX TBC200	104	FEP D-A70DIJ20	49	FES 4VTUS-110V	80	GSI SSFLEX8X24	102	ICS 2873M-3A	15
DIX TBC225	104	FEP D-A80DIJ40	49	FES 6VTUS-110V	80	HAM 3/4	72	ICS 2875M-1A	15
DIX TBC238	104	FEP D-A80SSJ40	49	FES 8VTUS-110V	80	HAM 3/8	72	ICS 2875M-2A	15
DIX TBC250	104	FEP GORMAN-14	45	FES 10VTUS-110	80	HAY 4LS-***	110	ICS 3364A	14
DIX TBC256	104	FEP JBC-3-103	49	FES 12VTUS-110	80	HAY 6LS-***	110	ICS 3383A	14
DIX TBC288	104	FEP L-80DIK25	48	FES 576516	80	HOS 300EPDM-1.5	100	ICS 3633A	14
DIX TBC300	104	FEP L-80SSK40	48	FLC 1001-15	72	HOS 300EPDM-2	100	ICS ELC5066A	15
DIX TBC350	104	FEP L-A40DIJ25	48	FLC 1002-202	72	HOS 300EPDM-3	100	ICS ELC5568A	11
DIX TBC375	104	FEP L-A40DIK25	48	FLC 1520-20	72	HOS 300EPDM-4	100	ICS ELC-ALLEY	15
DIX TBC450	104	FEP L-A40SSJ25	48	FLC 1520-30	72	HOS 390SDBK-2	100	ICS ELC-TOWER	15
DIX TBC475	104	FEP L-A40SSK25	48	FLC 1520-40	72	HOS 390SDBK-3	100	ICS EPSON-ROLL	88
DIX TCT30	87	FEP L-A70DIJ20	48	FRM 00002	20	HOS 414-1X1X5	102	ICS EPSON-SLIP	88
DIX TCT40	87	FEP L-A70DIK20	48	FSB ***	93	HOS 414-1X1X8	102	ICS HI-FLT-ASY	66
DIX TLS22	103	FEP L-A70SSJ20	48	FSC ***	92	HOS 414-1X1X12	102	ICS LEVELPRO	14
DIX TLS32	103	FEP L-A70SSK20	48	FSD A40DI-1J	59	HOS ED1	101	ICS LEVELPRO+	14
DIX TLS34	103	FEP L-A80DIJ40	48	FSD A40DI-1K	59	HOS ED1/2	101	ICS PDC-TOTLZR	41
DIX TLS44	103	FEP L-A80DIK25	48	FSD A40SS-1J	59	HOS ED-1X12P	102	ICS VBXFESTO4	14
DIX TLS46	103	FEP L-A80DIK40	48	FSD A40SS-1K	59	HOS ED2	101	ICS VBXFESTO6	14
DIX TLS48	103	FEP L-A80SSJ40	48	FSD A70DI-1J	59	HOS ED3	101	ICS VBXFESTO8	14
DIX TLS66	103	FEP MP-7	44	FSD A70DI-1K	59	HOS ED3/4	101	ICS VBXFESTO10	14
DIX TLS68	103	FEP MP-7D	44	FSD A70SS-1J	59	HOS ED3/8	101	ICS VBXFESTO12	14
DIX TLS88	103	FEP MP-7-SS	44	FSD A70SS-1K	59	HOS ED4	101	ICS VBXFESTO16	14
DIX TN44	103	FEP MP8SS5HNDE	46	FSD A80DI-1J	59	HOS ED6	101	IFM PN2694	66
DIX TN46	103	FEP MP-9	44	FSD A80DI-1K	59	HOS ED11/2	101	IFM PN2696	66
DIX TN64	103	FEP MP-9D	44	FSD A80SS-1J	59	HOS ED11/4	101	IFM TN2333	66
DIX TN66	103	FEP MP-9-SS	44	FSD A80SS-1K	59	HOS PVC1	100	INJ 22S2S1IT1N	107
DIX TN68	103	FEP MP-9-SS-B	45	FSF ***	93	HOS PVC2	100	INJ 33S3S5IT4N	107

INJ 43L3L59T8N	107	LSS 12194PL	115	MMG 744-026	70	MPP 21255	121	MPP 23038	117
INJ 44L4S59T12	107	MAN 43L4S3ML4N	106	MMG 744-048	70	MPP 21260	117	MPP 23039	117
INJ 44S3L59T0N	107	MAN 64L6S4ML4N	106	MMG 749-326	71	MPP 21262	117	MPP 23040	117
INJ 44S3L59T8N	107	MAN 66S6S4ML4N	106	MMG 754-001	71	MPP 21263	117	MPP 24965	117
INJ 44S4S59T0N	107	MEI 1BUNG	67	MMG 2682	70	MPP 21264	117	MPP 25299	120
INJ 44S4S59T8N	107	MEI 2BUNG	67	MMG 2682	71	MPP 21265	119	MPP 25664	117
INL 1/2SSAA	78	MEI 2SSBUNGVGT	67	MMG 7432031155	71	MPP 21266	117	MPP 25904	117
INL 1/2SSLL	73	MEI 2SSBUNG-XB	67	MMG 7432361065	71	MPP 21266	118	MPP 25904	117
INL 1/4SSLL	73	MEI 3/4BUNG	67	MMI CMF200-2C5	38	MPP 21266	119	MPP 25933	117
INL 1SSAA	78	MEI 3BUNG	67	MMI CMF300-3C5	38	MPP 21266	120	MPP 26097	117
INL 1SSEA	78	MEI 3SSBUNG-HV	67	MMI CMF300-4C5	38	MPP 21267	117	MPP 26100	117
INL 1SSLL	73	MEI 3SSBUNGVGT	67	MOR 148ALT1	68	MPP 21267	117	MPP 26101	117
INL 2SSAA	78	MEI 4SSBUNG-HV	67	MOR 148ALT2	68	MPP 21267	119	MPP 26142	117
INL 2SSEA	78	MEI 4SSBUNGVGT	67	MOR 285-1.5-6	111	MPP 21268	117	MPP 26164	117
INL 2SSLL	73	MEI 11/2BUNG	67	MOR 285-1.5-20	111	MPP 21268	120	MPP 26258	119
INL 2-STR-3	111	MEI 11/4BUNG	67	MOR 285-2	111	MPP 21268	121	MPP 26258	120
INL 3/4SSAA	78	MEI BUCKET	20	MOR 285-2GKTS	114	MPP 21269	117	MPP 26460	117
INL 3/4SSEA	78	MEI NIP-1.1	35	MOR 285-3-6	111	MPP 21271	117	MPP 26461	117
INL 3/4SSLL	73	MEK 15YST	99	MOR 285-3-20	111	MPP 21274	118	MPP 26565	121
INL 3/8SSAA	78	MEK 20YST	99	MOR 285-3-40	111	MPP 21274	119	MPP 26629	119
INL 3/8SSLL	73	MEK 30YST	99	MOR 285-3GKTS	114	MPP 21274	120	MPP 26630	119
INL 3SSLL	73	MES 00004	112	MOR 285-3YOKE	114	MPP 21275	119	MPP 26663	119
INL 11/2SSAA	78	MES 00016	113	MOR 285-6-1.5	114	MPP 21275	120	MPP 26665	119
INL 11/2SSEA	78	MES 00021	113	MOR 285-6-2	114	MPP 21284	117	MPP 26667	119
INL 11/2SSLL	73	MES 00026	113	MOR 285-6-3	114	MPP 21291	117	MPP 26667	120
INL 11/2SS-STR	111	MES 00031	112	MOR 285-11/2GK	114	MPP 21327	55	MPP 26673	119
INL 11/2-STR-3	111	MES 00032	113	MOR 285-20-1.5	114	MPP 21339	55	MPP 26673	120
INL 11/4SSLL	73	MES 00033	113	MOR 285-20-2	114	MPP 21372	55	MPP 26675	118
INL 204F-1"	73	MES 00034	113	MOR 285-20-3	114	MPP 21381	55	MPP 26675	119
INL 204F-1/2"	73	MES00035	112	MOR 818	65	MPP 22240	117	MPP 26675	120
INL 204F-2"	73	MES 00042	114	MOT 2H1P3600	62	MPP 22247	117	MPP 26676	118
INL 204F-11/2"	73	MES 00045	112	MOT 2H3P3600	62	MPP 22251	117	MPP 26677	119
INL 209F-2"	73	MES 00051	113	MOT 3H1P3600	61	MPP 22253	117	MPP 26678	119
INL 209F-3"	73	MES 00054	113	MOT 3H1P3600C	62	MPP 22255	117	MPP 26680	118
INL 209F-4"	73	MES 00060	113	MOT 3H3P3600	61	MPP 22256	117	MPP 26680	119
INL 209F-6	73	MES 00065	112	MOT 3H3P3600C	62	MPP 22263	117	MPP 26680	120
INL 209F-11/2"	73	MES 00068	112	MOT 3H3P3600XP	62	MPP 22266	117	MPP 26684	118
INL CVSE50	72	MES 00071	112	MOT 5H1P1725	61	MPP 22272	117	MPP 26685	118
INL CVSE75	72	MES 00071	112	MOT 5H1P3600	61	MPP 22286	117	MPP 26685	119
INL CVSE100	72	MES 00074	113	MOT 5H3P1725	61	MPP 22293	117	MPP 26685	120
INL CVSE125	72	MES 00080	113	MOT 5H3P3600	61	MPP 22311	117	MPP 26686	119
INL CVSE150	72	MIX 3EDUCTSSCO	63	MOT 5H3P3600XP	62	MPP 22321	117	MPP 26686	120
INL CVSE200	72	MIX 3LIQSSCOMP	63	MOT 7.5H3P1725	61	MPP 22348	117	MPP 26687	119
INL CVSE300	72	MIX 4EDUCTSSCO	63	MOT 7.5H3P3600	61	MPP 22351	117	MPP 26688	119
INL CVSE400	72	MIX PRESKID100	30	MOT 10H1P1725	61	MPP 22358	117	MPP 26689	119
INL DEAD1/2-L	73	MIX PRESKID150	30	MOT 10H1P3600	61	MPP 22361	117	MPP 26690	119
INL DEAD3/4-L	73	MIX PRESKID200	30	MOT 10H3P1725	61	MPP 22369	117	MPP 26691	119
INL DEADMAN1-L	73	MIX PRESKID250	30	MOT 10H3P1725X	62	MPP 22372	117	MPP 26692	119
INL SSFP2LL-3S	73	MIX SPECSTR3-2	110	MOT 10H3P3600	61	MPP 22376	117	MPP 26693	119
INL SSFP3LL-3	73	MIX SPECSTR3-3	110	MOT 10H3P3600X	62	MPP 22387	117	MPP 26733	118
JBC SP3340P	59	MIX SPECSTR3-4	110	MOT 15H3P1725	61	MPP 22425	117	MPP 26737	118
JCS 21LB	96	MIX SPECSTR4-2	110	MOT 15H3P1725X	62	MPP 22461	119	MPP 26744	118
LBR A40DI-1K	58	MIX SPECSTR4-3	110	MOT 20H3P1725	61	MPP 22461	120	MPP 26752	118
LBR A40SS-1K	58	MIX SPECSTR4-3	110	MOT 20H3P1725X	62	MPP 22468	117	MPP 26752	119
LBR A70DI-1K	58	MIX SPSTR3-2.5	110	MOT 20H3P3600	61	MPP 22471	117	MPP 26752	120
LBR A70SS-1K	58	MIX SPSTR4-2.5	110	MOT 25H3P1725	61	MPP 22564	117	MPP 26780	117
LBR A80DI-1K	58	MLI MLI3-50-D	110	MOT 25H3P1725X	62	MPP 22566	117	MPP 26788	118
LBR A80DI1K9.5	58	MLI MLI3-50-FL	110	MOT 25H3P3600	61	MPP 22656	118	MPP 26796	118
LBR A80SS-1J	58	MLI MLI4B-50-2	110	MOT 30H3P1725	61	MPP 22656	119	MPP 26796	119
LBR A80SS-1K	58	MLI MLI6-30-2	110	MPP 21237	117	MPP 22674	118	MPP 26796	120
LBR A80SS-1K	58	MLI MLI8-30-2	110	MPP 21238	117	MPP 22674	119	MPP 26972	118
LBR A80SS9.5LS	58	MLS 430-4	86	MPP 21242	117	MPP 22674	120	MPP 26972	119
LBR AB8SS-1J	58	MMG 741-084	71	MPP 21248	117	MPP 23002	117	MPP 26972	120
LSC MODEL-8-3F	110	MMG 743-016	70	MPP 21249	117	MPP 23002	117	MPP 26994	118
LSC PROLINE-3	110	MMG 743-087	70	MPP 21254	119	MPP 23003	117	MPP 26996	118
LSC PROLINE-4	110	MMG 743-097	70	MPP 21254	120	MPP 23022	117	MPP 26997	118
LSC PROLINE-6	110	MMG 744-003	70	MPP 21254	120	MPP 23024	117	MPP 26998	118

MPP 26999	118	MPP 33054	120	OPW H6429M	99	PTE TNK6100316	64	S4L S***	92
MPP 27002	118	MPP 33056	120	OPW H20544M	99	PVC B***	95	S4L WELD***S10SR	97
MPP 27005	57	MPP 33057	120	OPW H20546M	99	PVC CAP***T	94	S4L WELD***SCH10	97
MPP 27010	49	MPP 33058	120	OPW H20547M	99	PVC C***MTXFS	94	S4L WELD***SCH40	97
MPP 27013	118	MPP 33059	120	OPW QUADRING3	85	PVC C***SXS	94	S4L WLD***X45-10	97
MPP 27014	118	MPP 33161	121	OPW QUADRING4	85	PVC C***TXT	94	S4L ***X45	92
MPP 27015	118	MPP 33232	121	PDC 6730-BM0-0	41	PVC F***	95	S4N ***	93
MPP 27045	118	MPP 33297	57	PDC 6830-BM0-0	41	PVC F***B	95	S4N ***XCL	93
MPP 27106	118	MPP 33301	55	PEN 1POLY	68	PVC F***S	95	S4P ***	92
MPP 27134	119	MPP 33472	120	PEN 2CI	68	PVC ***INVPPIPE	90	S4P IPE ***SCH10	90
MPP 27134	120	MPP 33486	119	PEN 3/4POLY	68	PVC L45***SXS	94	S4P IPE ***SCH40	90
MPP 27140	119	MPP 33631	55	PEN 11/2POLY	68	PVC L45***TXT	94	S4S TUB***SCH10	97
MPP 27140	120	MPP 33678	57	PEP GNX2-1	50	PVC L***SXS	94	S4T ***	92
MPP 27141	119	MPP 33757	121	PEP GNX2-2	50	PVC L***TXT	94	S4T WELD***SCH10	97
MPP 27141	120	MPP 34179	120	PEP GNX3-1	50	PVC N***	95	S4T WELD***SCH40	97
MPP 27143	119	MPP 34793	55	PEP GNX3-2	50	PVC T***SXSXS	94	S4U ***	92
MPP 27143	120	MPP 35914	121	PEP GNX3-3	50	PVC T***TXTXT	94	S6B ***	93
MPP 27144	119	MPP 36588	46	PEP GNX3-4	50	PVC U***SXS	94	S6C ***	92
MPP 27144	120	MPP 36862	55	PEP GNX4-1	50	PVC U***TXT	94	S6C AP***	92
MPP 27146	119	MPP 36862-B	56	PEP GNX4-2	50	PYR 4TEMP-1/2	66	S6C ***HALF	92
MPP 27146	120	MPP 37147	55	PEP GNX4-3	50	RAN 229MGBFRV	60	S6C R***	92
MPP 27147	119	MPP 37881	121	PEP GNX21/2-1	50	RAN 229MHBFRV	60	S6C ROS***	92
MPP 27147	120	MPP 38119	46	PEP GNX21/2-2	50	RAN 229MHBFRVC	60	S6C RWEL***-10	97
MPP 27155	119	MPP 38433	55	PFV 21/2PR60	65	REC 1PTGLUE	96	S6C RWEL***-40	97
MPP 27157	119	MPP 41475	120	PFV 21/2PR100	65	REC 1PTPRIMER	96	S6C RWEL***ECC	97
MPP 27157	120	MPP 41475	120	PFV 21/2PR160	65	REC 1QTGLUE	96	S6F ***	93
MPP 27159	120	MPP 41479	120	PFV 21/2PR200	65	REC 1QTTPRIMER	96	S6F ***B	93
MPP 27205	119	MPP 43926	120	PFV WGGSS60	65	REC 5-1/4PT	96	S6F LAPJOINT***	93
MPP 27205	120	MPP 50015	55	PFV WGGSS100	65	REC 5-1PT	96	S6F ***S	97
MPP 27240	118	MPP 50048	55	PFV WGGSS160	65	REC ANTISEIZE	96	S6F ***W	93
MPP 27248	119	MSA 79124	115	PFV WGGSS400	65	REC LOCTITE50	96	S6L ***	92
MPP 27248	120	MSA GLOVES	115	PHC 2SSCOUPLER	70	REC LOCTITE250	96	S6L S***	92
MPP 27258	120	MSA PVCGLOVES	115	PHC 2SSNIP-BUT	70	REC PRIMER-25G	96	S6L WELD***SCH10	97
MPP 27403	119	NEF 17113-01	81	PHC 2SSNIP-DC	70	REC PRIMER128G	96	S6L WELD***SCH40	97
MPP 27403	120	NEF 35249	81	PHC 2SSNIP-NPT	70	REC TEFTAPE1	96	S6L ***X45	92
MPP 27404	119	NEF CO42503	81	PHC PF-1001	70	REC TEFTAPE1/2	96	S6N ***	93
MPP 27642	117	NEF M-08008	81	PHC PF-1002	70	REC TEFTAPE3/4	96	S6N ***CL	93
MPP 27644	55	NEF MAC-ELECT	81	PLC 8S	104	REC TPLUS2-1PT	96	S6P ***	92
MPP 27984	55	NEF MACVALVE	81	PLC 10S	104	RLS 66653	88	S6P IPE***SCH10	90
MPP 28053	121	NEF MANIFOLD10	81	PLC 12S	104	RLS 76310-480	88	S6P IPE ***SCH40	90
MPP 28553	46	NEF MANIFOLD15	81	PLC 14S	104	RLS 76310-480	88	S6S TUB***SCH10	97
MPP 29194	121	NEF MANIFOLD20	81	PLC 16S	104	RLS 76310-1480	88	S6T ***	92
MPP 29194	121	NSP W-169	71	PLC 20S	104	RLS 76310-1480	88	S6T WELD***SCH10	97
MPP 29648	55	OPW 56-3LH	86	PLC 24S	104	RLS 126564	88	S6T WELD***SCH40	97
MPP 29649	55	OPW 56-4LH	86	PLC 32S	104	RLS 155666	88	S6U ***	92
MPP 31093	121	OPW 58-3RH	86	PLY B***	95	RLS 155666-1	88	S6 WLD***X45-10	97
MPP 31096	121	OPW 58-4RH	86	PLY C***	94	RLS 195176	88	S6 WLD***X45-40	97
MPP 31098	121	OPW 788L	85	PLY CAP***	94	ROP 2835P	60	SAF EARPLUG	115
MPP 31233	121	OPW 788LLH	85	PLY CR***	94	RTI 3P020P02FI	82	SAF RESPIRATOR	115
MPP 31234	121	OPW 1672ANSS20	70	PLY CROS***	94	RTI ELIMINIZER	82	SCC 6	104
MPP 31347	121	OPW 1672ANSS30	70	PLY F***	95	S4B ***	93	SCC 8	104
MPP 31374	121	OPW 1772DL20SS	70	PLY L***	94	S4C ***	92	SCC 10	104
MPP 31461	121	OPW 1772DL30SS	70	PLY LS***	94	S4C AP***	92	SCC 12	104
MPP 31467	121	OPW 3001K-2	85	PLY LS***X45	94	S4C APWELD***S10	97	SCC 16	104
MPP 31469	121	OPW 3001K-3	85	PLY N***	95	S4C ***HALF	92	SCC 20	104
MPP 31656	121	OPW 3001K-4	85	PLY N***CL	95	S4C R***	92	SCC 28	104
MPP 31668	121	OPW 3820-2	85	PLY P***	94	S4C ROS***	92	SCC 32	104
MPP 31780	121	OPW 3820-3	85	PLY T***	94	S4C RWEL***-10	97	SCC 36	104
MPP 31802	121	OPW 3820-4	85	PTE TNK10K316	64	S4C RWEL***-40	97	SCC 40	104
MPP 31803	121	OPW 3830-2	85	PTE TNK10KD2	64	S4C RWEL***ECC	97	SCC 56	104
MPP 31804	121	OPW 3830-3	85	PTE TNK2400D23	64	S4F ***	93	SCC 72	104
MPP 31840	55	OPW 3830-4	85	PTE TNK4300D23	64	S4F ***B	93	SCC 104	104
MPP 31903	121	OPW 3840-2	85	PTE TNK5100D23	64	S4F LAPJOINT***	93	SCC 60175	104
MPP 31938	121	OPW 3840-3	85	PTE TNK6100D23	64	S4F R***	92	SCC 60200	104
MPP 33051	120	OPW 3840-4	85	PTE TNK2400316	64	S4F ***S	97	SCC 60250	104
MPP 33052	120	OPW 3850-3	85	PTE TNK4300316	64	S4F ***W	93	SCC 60300	104
MPP 33053	120	OPW 3860-3	85	PTE TNK5100316	64	S4L ***	92	SCC 60350	104

SCC 60400	104	SOT 825	40	TCS 680670KIT	43	VEG XXANPHKNAX	65	WLK R18-03F000	82
SCC 60450	104	SOT FRHP32V	54	TCS 680672KIT	43	VEG XXBFKHKNAX	65	WLK R18-04F000	82
SCC 60500	104	SOT SS435-414	52	TCS DMP10015	43	VER 1424-4X3	59	WVE 2340N5V200	79
SCC M8	104	SOT SS435-EPDM	52	TCS TM10NXX	39	V/R 312020-905	43	WVE 2340N5V230	79
SCC U5	104	SOT SS445-414	53	TCS TM10NZDCAM	39	V/R 312020-908	43	WVE 2340N5V460	79
SCI AIRPUMP	54	SOT SS445-EPDM	53	TCS TM15NXX	39	V/R 788036-DMP	41	WVE START-UP	79
SCI AIRPUMPCOM	53	SOT SS465-414	52	TCS TM15NZDCAM	39	V/R 788039-DMP	41		
SCI CADCT6-414	52	SOT SS465-EPDM	52	TCS TM20FXX	39	V/R 788700-036	41		
SCI CADCT6EPDM	52	TCF A-CHB-1	71	TCS TM20NXX	39	V/R 788702-015	42		
SCI CT6	54	TCF NE-VENT	71	TCS TM20NZDCAM	39	V/R 788803-003	42		
SCI CT6CAGE-E	53	TCF SP-1	71	TCS TM30FXX	39	V/R 788810-004	42		
SCI CT6GEM-E	53	TCF VENT-B1	71	TCS TM30NXX	39	V/R 788810-013	42		
SCI CT6GEM-S	53	TCS 1-310215	88	TCS TM30NZDCAM	39	V/R 789000-076	42		
SCI SEM-10	40	TCS 1-310215L	88	TCS TM40FXX	39	V/R 789000-077	42		
SCI SEM-10FT	40	TCS 3000	41	TCS TM40FZDCAM	39	W/D COM4449	71		
SCI SEM-10FTP	40	TCS 74020AF	42	TCS TM75NXX	39	WES 4S-20-240	66		
SCI XTUBE-E	71	TCS 74020SS	42	VEG PLICSCOMXB	65	WLK R18-02F000	82		

TERMS & CONDITIONS

All products are sold and all quotations are subject to the following terms and conditions:

1. Buyer's order is accepted on the condition that the following terms and conditions, or any special attachments, shall apply and shall constitute the entire agreement between the parties. The terms and conditions may not be varied, and no modification or addition to them shall be of any force or effect, unless made by or specifically accepted by MEI in writing. Acceptance of Buyer's orders, which contain additional or different conditions of purchase printed on the order form, shall not be binding upon MEI unless specifically agreed to in writing by an authorized representative of MEI (If any conflict exist between the terms and conditions as set forth herein, and those terms and conditions as contained on Buyer's order form, these terms and conditions shall supersede and govern.)

2. All quotations or agreements are contingent upon strikes, lockout, work-stoppages, war, riot, availability of materials, fire, accident or any other cause beyond MEI's control. MEI shall have no liability for any delay, failure to deliver, loss or damage, or any consequential damages arising therefrom.

3. Time for delivery shall not be of the essence of the agreement. MEI will make its best efforts to meet the stated shipment or delivery dates, but it shall not be liable for any loss or damages, including consequential damages, resulting from any delay.

4. All orders are subject to a minimum net invoice billing of \$5.00 exclusive of non-product charges such as postage, freight or taxes, etc., unless stated to the contrary on the face of this agreement. Payment terms are net 15 days from the invoice date. Any invoices paid after the due date on the invoice, shall accrue interest at the rate of 1 and 1/2 percent per month, 18 percent per year.

5. Invoices are billed at prices in effect at time of shipment. Prices and discounts are subject to change without notice.

6. Title and risk of loss or damage to the equipment shall pass to the purchaser upon tender or delivery F.O.B. manufacturing facility unless otherwise agreed upon by the parties.

7. Typographical or mathematical errors made by MEI in quotations, acknowledgments or invoices are subject to correction. To be allowable, any claim of error in quantity shipped shall be made by the Buyer in writing, within 10 days after receipt of the goods.

8. No goods may be returned without MEI's written permission. If authorized for return, transportation charges must be prepaid by Buyer unless otherwise agreed to by MEI in writing in the authorization to return goods. All goods authorized for return are subject to inspection and acceptance. A handling charge equal to 15 percent of the purchase of the goods will be assessed on items not returned within 90 days, unless waived by MEI, in writing, in the authorization to return goods. No credits are issued without the original invoice number.

9. No cancellation, suspension or variation of an order accepted by MEI shall be valid unless agreed to by MEI in writing. MEI reserves the right to assess cancellation or other charges to indemnify against all loss, including the profit on any part of an order that is cancelled.

10. Buyer agrees to, and does, indemnify and hold harmless MEI against any and all loss or liability either direct or indirect, including reasonable attorney fees for or on account of any claims, demands or suits for any actual or alleged infringement of any letters, patents, copyrights or trademarks, either domestic or foreign arising from the manufacture or sale of goods in accordance with patterns, designs, specifications, drawings, directions, technical information, or data furnished to MEI by Buyer.

11. All quotations and all of the terms and conditions set forth above, and any agreement or sale arising between Buyer and MEI shall be governed and construed in accordance with the laws of the State of Indiana. Exclusive jurisdiction and venue for any and all claims arising out of any quotation or sale between Buyer and MEI shall be in the courts located in Allen County, Indiana.

12. Sale of all original equipment manufacturer ("O.E.M.") products are subject to the O.E.M.'s limited warranty and limitations of liability. Under no circumstances shall MEI be liable for indirect, consequential, incidental or special damages, including but not limited to, loss of profit, loss of product, or any cleanup costs associated with loss of product.

13. MEI certifies that the products furnished pursuant to this agreement have been or will be produced in compliance with the Fair Labor Standards Act as amended and regulations and orders of the United States Department of Labor. MEI agrees that this statement may be considered as the written assurance contemplated by said Act.

14. Unless otherwise expressly provided, MEI shall retain title to and possession of any models, patterns, dyes, molds, jigs, fixtures, and tools made for or obtained for the furnishing of this order.

15. Buyer's acceptance of any order based on this agreement shall evidence the acceptance by the Buyer of the terms and conditions on the face and reverse side of this agreement. By accepting the goods, Buyer agrees to be bound by these terms and conditions, notwithstanding any adverse or conflicting terms or conditions on Buyer's purchase order. Any exceptions or charges must be in writing and signed by an authorized representative of MEI

Warranty

New machines, equipment or components of Murray Equipment, Inc. ("MEI") manufacturing or fabrication with which this warranty is enclosed, are warranted by MEI to the original purchaser only for a period of ninety (90) days from the date of shipment, to be free, under normal use and service, from defects in material workmanship. For defects occurring within state warranty period, MEI will repair or replace at MEI's option; provided that parts are returned to MEI transportation charges prepaid, and that MEI's examination discloses the part or parts or workmanship to have been defective upon delivery to the purchaser.

Exclusions

Warranty does not cover any parts and equipment not manufactured by MEI, but these items may be covered by the separate warranties of their manufacturers. This warranty does not extend to any equipment which has been subjected to misuse, negligence, or accident, or if operated in any manner other than in accordance with MEI's operating instructions and specifications. This warranty applies only to MEI products sold in the United States; any MEI products sold elsewhere are warranted by the affiliated marketing company.

Claim Procedures

In order to obtain performance by MEI of its obligations under this warranty, the original purchaser must return the defective machine, piece of equipment, or component covered by this warranty, with transportation charges prepaid, to MEI at 2515 Charleston Place, Fort Wayne, IN 46808, together with a written statement setting forth the nature of defect and proof of purchase from MEI.

Limitations

There are no other warranties of any kind express or implied. MEI specifically disclaims any warrant of merchantability or of fitness for any particular purpose. MEI's sole obligation which shall represent the buyer's sole and exclusive remedy, shall be to repair or at MEI's option to replace any product or part determined to be defective. In no event shall MEI be liable for any special, direct, indirect, incidental, consequential or other damages of similar nature incurred, nor any liability to be assumed except as expressly provided herein; there is no other express or implied warranty.

Repair Warranty

All work is warranted for thirty (30) days from the date of shipment to customer. Some parts may be warranted for longer periods by the original equipment manufacturer.

Design & Equipment

Any changes in design or improvements added shall not create any obligation to install same on equipment previously sold or ordered.



MEI Is Your Complete Systems Provider

Need a new fertilizer plant or simply need a hose? Either way, our experts are just a phone call away.

For **75 years** we've been committed supplying the industry with superior parts, systems, plants, & controls.